

**UNIT VARIATIONS  
COVERED BY THIS  
PRINT SET**

DMR11-AA  
DMR11-AB  
DMR11-AC  
DMR11-AD  
DMR11-AE

# DMRII-Ø

## Field Maintenance

### Print Set

## Digital Equipment Corporation

PRINT SET ORDER NO.  
MP00911

|  |      |                      |               |           |   |  |  |  |  |  |  |  |  |  |
|--|------|----------------------|---------------|-----------|---|--|--|--|--|--|--|--|--|--|
| REVISIONS<br>CHG. NO.<br>11-3-80<br>DMRII-MK001<br>REV.<br>A | DATE | USED ON OPT ON/MODEL | DIRN.         | DATE      | TITLE: FIELD MAINTENANCE PRINT SET<br>(DMR11) |  |  |  |  |  |  |  |  |  |
|  |      | DMR11                | 13uider       | 9 JAN 80  |   |  |  |  |  |  |  |  |  |  |
|  |      |                      | CHK'D         | DATE      | SIZE B CODE TC NUMBER DMR11-0-1 REV. A        |  |  |  |  |  |  |  |  |  |
|  |      |                      | H. Harrington | 17 MAR 80 |   |  |  |  |  |  |  |  |  |  |
|  |      |                      | PROJ. ENG.    | DATE      | DIST.   |  |  |  |  |  |  |  |  |  |
|  |      |                      | H. Harrington | 17 MAR 80 |   |  |  |  |  |  |  |  |  |  |
|  |      |                      | FIELD SERV.   | DATE      | SHEET 1 OF 2                                  |  |  |  |  |  |  |  |  |  |
|  |      | 13uider              | 21 MAR 80     |           |   |  |  |  |  |  |  |  |  |  |

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|                  |   |         |
|------------------|---|---------|
| D-UA-H3254-Ø-Ø   | M82Ø3 TEST CONN                           | J1      |
| K-PL-H3254-Ø-DBP | M82Ø3 TEST CONN                           | J1 (PL) |
| D-UA-H3255-Ø-Ø   | M82Ø3 TEST CONN                           | J2      |
| K-PL-H3255-Ø-DBP | M82Ø3 TEST CONN                           | J2 (PL) |
| D-UA-BCØ5D-Ø-Ø   | RS232 MALE TO RS232 FEMALE 25 COND. CABLE |         |
| D-UA-BC55M-Ø-Ø   | INTEGRAL MODEM CABLE                      |         |
| D-UA-BC55N-Ø-Ø   | INTEGRAL MODEM CABLE                      |         |
| B-PL-DMR11-Ø     | SHIPPING LIST DMR11                       |         |
| K-PL-BC55C-Ø-DBP | BC55C PANEL ASSY.                         |         |
| D-CS-H8Ø55-C-1   | BC55 CONN. MODULE                         |         |
| B-UA-H3257-Ø-Ø   | TERMINATOR, INTEGRAL MODEM, MALE          |         |
| B-UA-H3258-Ø-Ø   | TERMINATOR, INTEGRAL MODEM, FEMALE        |         |

|  |      |      |           |     |
|--|------|------|-----------|-----|
| TITLE                                  | SIZE | CODE | NUMBER    | REV |
| FIELD MAINTENANCE PRINT SET<br>(DMR11) |      | B TC | DMR11-Ø-1 | A   |
| SHEET 2 OF 2                           |      |      |           |     |

MK

## DRAWING DIRECTORY

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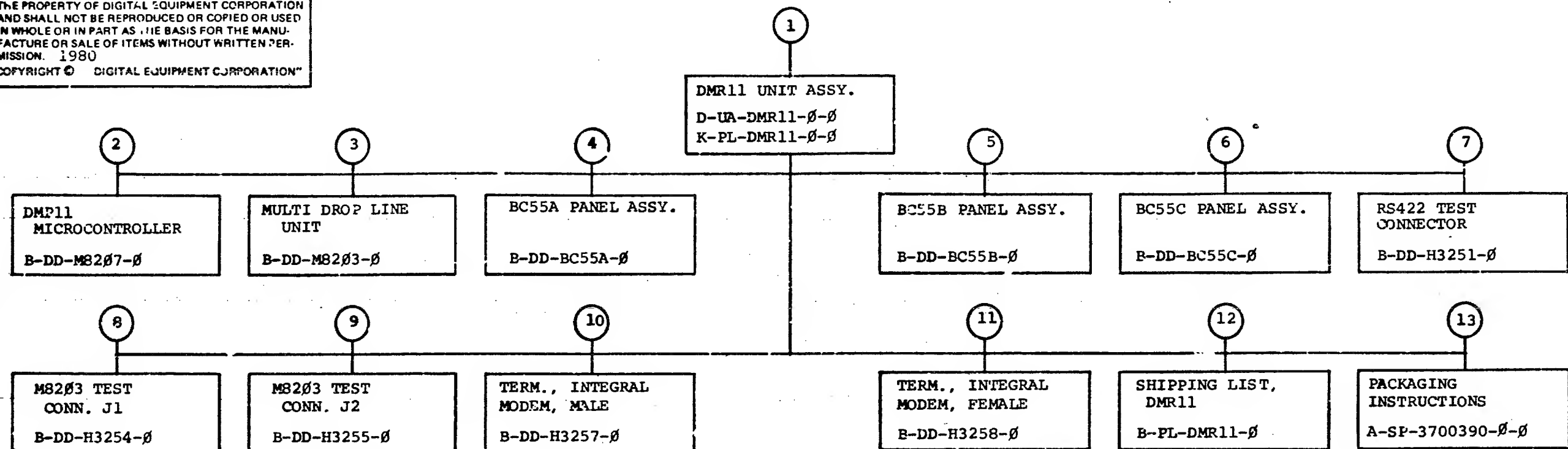
REFER TO B-TC-DMR11-M-1

## UNIT VARIATIONS

[illegible]

|           |  |      |  |              |  |     |  |                      |  |               |  |           |  |                              |  |
|-----------|--|------|--|--------------|--|-----|--|----------------------|--|---------------|--|-----------|--|------------------------------|--|
| REVISIONS |  | REV. |  | CHAM. E.N.O. |  | CHK |  | USED ON OPTION/MODEL |  | DRN           |  | DATE      |  | TITLE                        |  |
|           |  |      |  |              |  |     |  | DMR11                |  | D. Guedi      |  | 9 JAN 80  |  | DRAWING DIRECTORY<br>(DMR11) |  |
|           |  |      |  |              |  |     |  |                      |  | CHK'D.        |  | DATE      |  |                              |  |
|           |  |      |  |              |  |     |  |                      |  | R. Huntington |  | 17 MAR 80 |  |                              |  |
|           |  |      |  |              |  |     |  |                      |  | PROJ. ENG.    |  | DATE      |  |                              |  |
|           |  |      |  |              |  |     |  |                      |  | R. Huntington |  | 17 MAR 80 |  |                              |  |
|           |  |      |  |              |  |     |  |                      |  | PROD.         |  | DATE      |  |                              |  |
|           |  |      |  |              |  |     |  |                      |  | A. L. L.      |  | 17 MAR 80 |  |                              |  |
|           |  |      |  |              |  |     |  | SHEET 1 OF 3         |  |               |  |           |  | DIST.                        |  |

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| TITLE                     | SHEET | OF | SIZE | CODE | NUMBER  | REV |
|---------------------------|-------|----|------|------|---------|-----|
| DRAWING DIRECTORY (DMR11) | 2     | 3  | B    | DD   | DMR11-Ø | *   |

MK

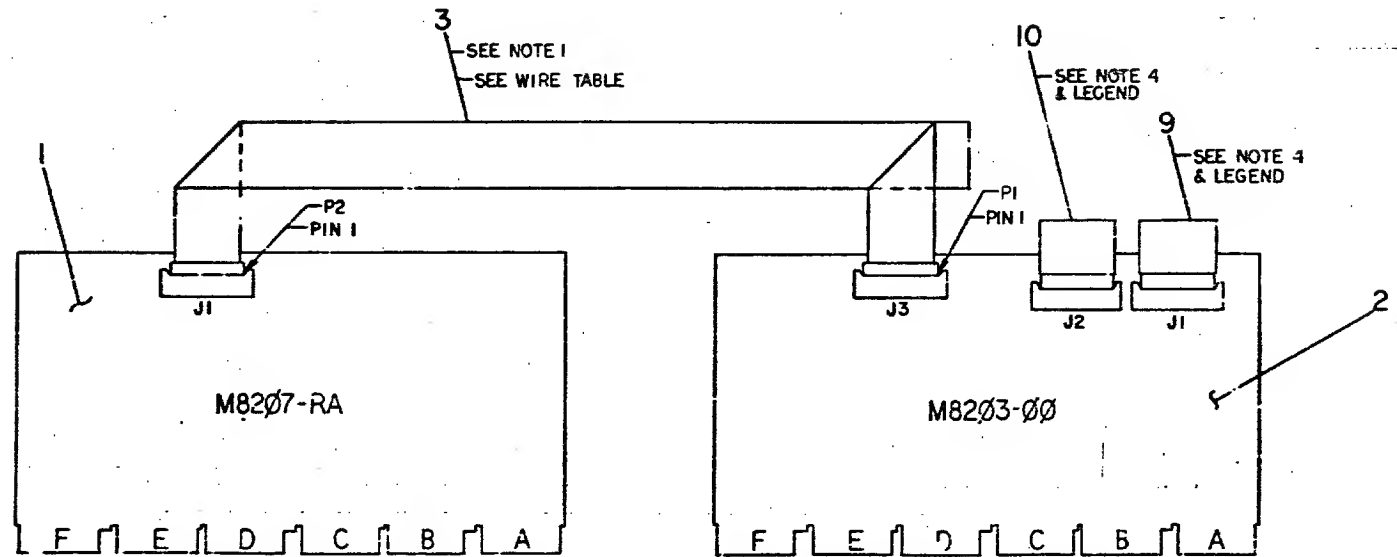
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|--|---|----------------|------------------------------------|--------------|------------------|-------------------|-------------------|----------|
| TYPE: E ELECTRICAL<br>M MECHANICAL<br>E/M ELECTRO/MECHANICAL | Asterisk (*) denotes optional equipment | <b>digital</b> | TITLE<br>DRAWING DIRECTORY (DMR11) | SHEET 3 OF 3 | SIZE<br><b>B</b> | CODE<br><b>DD</b> | NUMBER<br>DMR11-0 | REV<br>* |
|--|---|----------------|------------------------------------|--------------|------------------|-------------------|-------------------|----------|

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| WIRE TABLE |             |      |             |      |
|------------|-------------|------|-------------|------|
| ITEM NO.   | FROM        |      | TO          |      |
|            | CONN        | WITH | CONN        | WITH |
| 3          | J1 (ITEM 1) | P2   | J3 (ITEM 2) | PI   |

| LEGEND    |            |       |           |                                  |
|-----------|------------|-------|-----------|----------------------------------|
| VARIATION | M8203 CONN | CABLE | TEST CONN | OPTIONAL EXTENSION CABLE         |
| DMR11-AA  | J2         | BC55C | H3251     | BC05D/RS232<br>BC55D/RS423       |
| DMR11-AB  | J1         | BC052 | H3250     | NONE                             |
| DMR11-AC  | J1         | BC55A | NONE      | BC55M (HI SPEED)<br>BC55N (56 K) |
| DMR11-AD  | —          | —     | —         | —                                |
| DMR11-AE  | J2         | BC55B | H3251     | BC55D/RS422                      |

- NOTES:
- IF I/O CABLE ASSY. PC085-01, (ITEM 3) IS NOT AVAILABLE, I/O CABLE ASSY. (DUA-BC23R-01) MAY BE USED IN ITS PLACE.
  - POWER NOTE**  
MULTIPLE UNITS IN A BACKPLANE MAY EXCEED REGULATOR CAPACITY. SPLIT LOADING BETWEEN REGULATORS TO BALANCE REGULATOR CAPACITY. +5V CURRENT IS 8.5 AMPS/DMR11.
  - INSTALLATION NOTE**  
THE NPR GRANT JUMPER, (CA1 TO CB1) MUST BE REMOVED BEFORE M8207-RA, (ITEM 1) IS INSTALLED. THIS JUMPER MUST BE INSTALLED IF THE M8207-RA IS REMOVED FROM THE SYSTEM.
  - ITEMS 9&10 FOR TEST PROCEDURE ONLY.



THIS CONFIGURATION  
FOR DMR11-AD ONLY

**CAUTION:** OFF SHEET PARTS LIST EXIST,  
REFER TO K-PL-DMR11-0-0.

| REVISION | DATE     | BY          | CHKD | APP'D |
|----------|----------|-------------|------|-------|
| 1        | 11/10/80 | DMR11-MK001 | A    |       |
| 2        | 11/10/80 | DMR11-MK001 | A    |       |
| 3        | 11/10/80 | DMR11-MK001 | A    |       |
| 4        | 11/10/80 | DMR11-MK001 | A    |       |
| 5        | 11/10/80 | DMR11-MK001 | A    |       |
| 6        | 11/10/80 | DMR11-MK001 | A    |       |
| 7        | 11/10/80 | DMR11-MK001 | A    |       |
| 8        | 11/10/80 | DMR11-MK001 | A    |       |
| 9        | 11/10/80 | DMR11-MK001 | A    |       |
| 10       | 11/10/80 | DMR11-MK001 | A    |       |
| 11       | 11/10/80 | DMR11-MK001 | A    |       |
| 12       | 11/10/80 | DMR11-MK001 | A    |       |
| 13       | 11/10/80 | DMR11-MK001 | A    |       |
| 14       | 11/10/80 | DMR11-MK001 | A    |       |
| 15       | 11/10/80 | DMR11-MK001 | A    |       |
| 16       | 11/10/80 | DMR11-MK001 | A    |       |
| 17       | 11/10/80 | DMR11-MK001 | A    |       |
| 18       | 11/10/80 | DMR11-MK001 | A    |       |
| 19       | 11/10/80 | DMR11-MK001 | A    |       |
| 20       | 11/10/80 | DMR11-MK001 | A    |       |

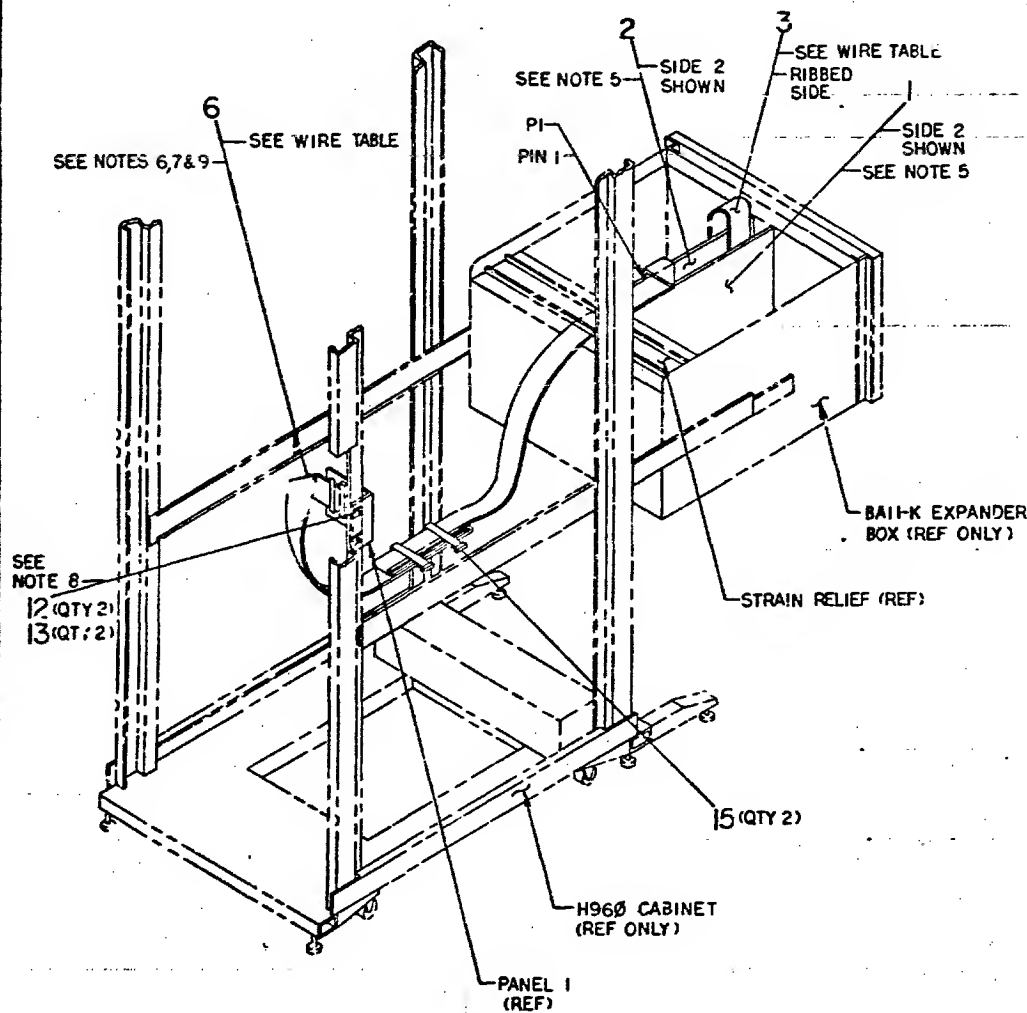
|   |  |                   |  |                                  |          |
|---|--|-------------------|--|----------------------------------|----------|
| QUANTITY & VARIATION                                |  | DESCRIPTION       |  | DWG. PART NO.                    | ITEM NO. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |                   |  |                                  |          |
| ANGLES  |  | CLASS OF ACCURACY |  | NOMINAL DIMENSION RANGE (INCHES) |          |
| 90° ± 30'   |  | 0                 |  | 0.001                            |          |
| SURFACE QUALITY                                     |  | CHECK ONE         |  | 0.001                            |          |
| MEDIUM  |  | 0.001             |  | 0.001                            |          |
| MICRO INCHES  |  | 0.001             |  | 0.001                            |          |
| THIRD ANGLE PROJECTION                              |  | DRN               |  | FIRST USED ON                    |          |
| REMOVE BURRS AND CHAMFER SHARP CORNERS              |  | CHK'D             |  | DMR11                            |          |
| DO NOT SCALE DWG                                    |  | ENG               |  | DMR11                            |          |
| NEXT HIGHER ASSY.                                   |  | PRD               |  | DMR11                            |          |
| MATERIAL  |  | ECC-DMR11-0       |  | DMR11                            |          |
| SEE PARTS LIST                                      |  | SCALE             |  | DMR11-0-0                        |          |
| FINISH  |  | SHEET             |  | DMR11-0-0                        |          |
|   |  | OF 8              |  | DMR11-0-0                        |          |
|   |  |                   |  | DMR11-0-0                        |          |

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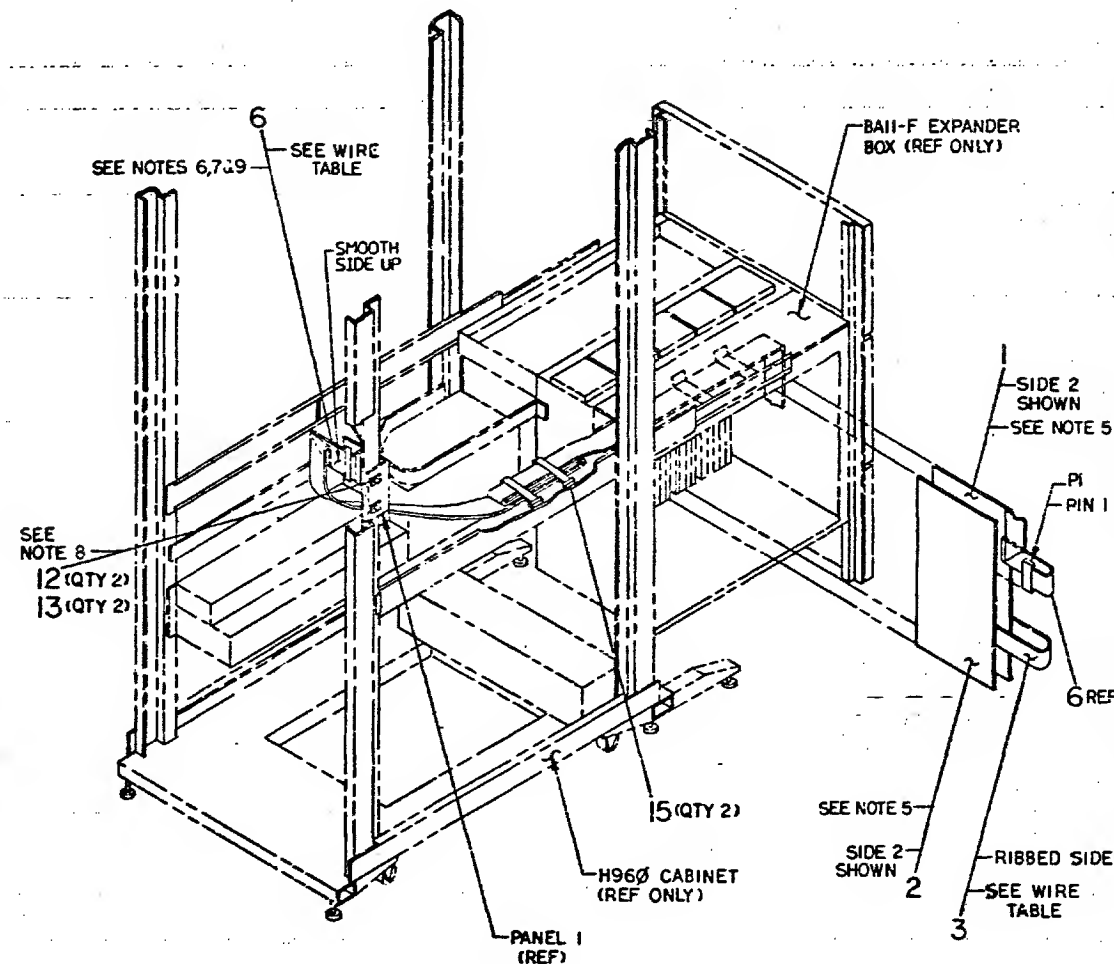
| WIRE TABLE |             |      |             |      |                    |
|------------|-------------|------|-------------|------|--------------------|
| ITEM NO.   | FROM        |      | TO          |      | REMARKS            |
|            | CONN        | WITH | CONN        | WITH |                    |
| 3          | J1 (ITEM 1) | P2   | J3 (ITEM 2) | P1   | BOTH TYP. INSTALL. |
| 6          | —           | —    | J2 (ITEM 2) | P1   |                    |

NOTES (CONTINUED):

- THE ORDER OF MODULES IN BACKPLANE IS NOT FIXED.
- SECURE CABLE ASSY. (ITEM 6) WITH STRAIN RELIEF WHICH IS INTEGRAL TO EACH BAIL BOX.
- EXCESS CABLE TO BE LOOPED AND SECURED WITH 2 CABLE TIES (ITEM 15) AS SHOWN WHEN INSTALLED IN H960 SERIES CABS. REFER TO SHEET 6 FOR CABLE ROUTING WHEN OPTION IS INSTALLED IN H9602 SERIES CABS.
- FOR MOUNTING HOLE LOCATIONS, REFER TO SHEET 6.
- H3251 TEST CONNECTOR, (ITEM 8) TO BE CONNECTED TO J1 AT PANEL END OF BC55C CABLE ASSY. (ITEM 6) FOR TESTING PURPOSES ONLY.



TYP. INSTALLATION IN A BAIL-K EXPANDER BOX



TYP. INSTALLATION IN A BAIL-F EXPANDER BOX

| REV. | CHANGE NO. | REV. |
|------|------------|------|
|      |            |      |

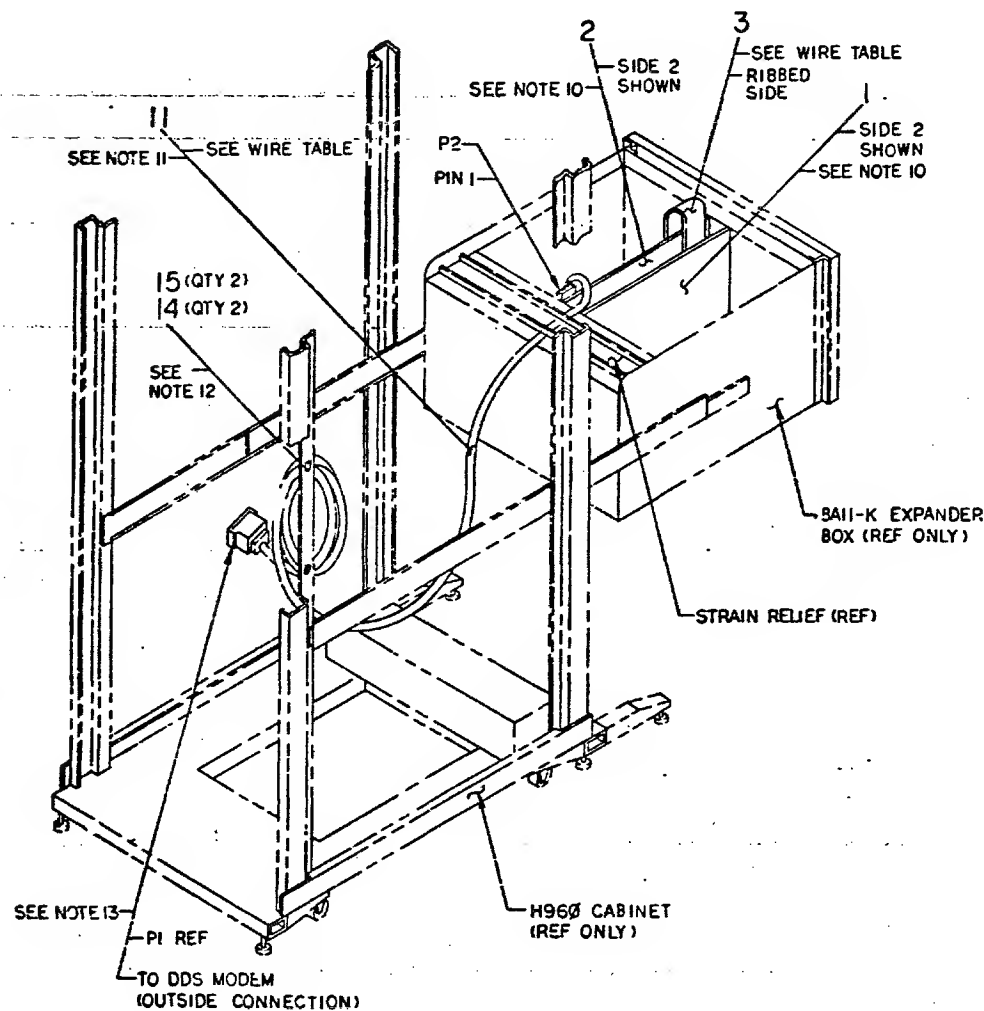
| TITLE            | SIZE CODE | NUMBER    | REV.  |
|------------------|-----------|-----------|-------|
| DMRII UNIT ASSY. | DUA       | DMRII-0-0 | A     |
| SCALE            | SHEET     | 2 OF 8    | DIST. |
|                  |           |           |       |

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| WIRE TABLE |             |      |             |      |                    |
|------------|-------------|------|-------------|------|--------------------|
| ITEM NO.   | FROM        |      | TO          |      | REMARKS            |
|            | CONN        | WITH | CONN        | WITH |                    |
| 3          | J1 (ITEM 1) | P2   | J3 (ITEM 2) | P1   | TYP. BOTH INSTALL. |
| 11         | —           | —    | J1 (ITEM 2) | P2   |                    |

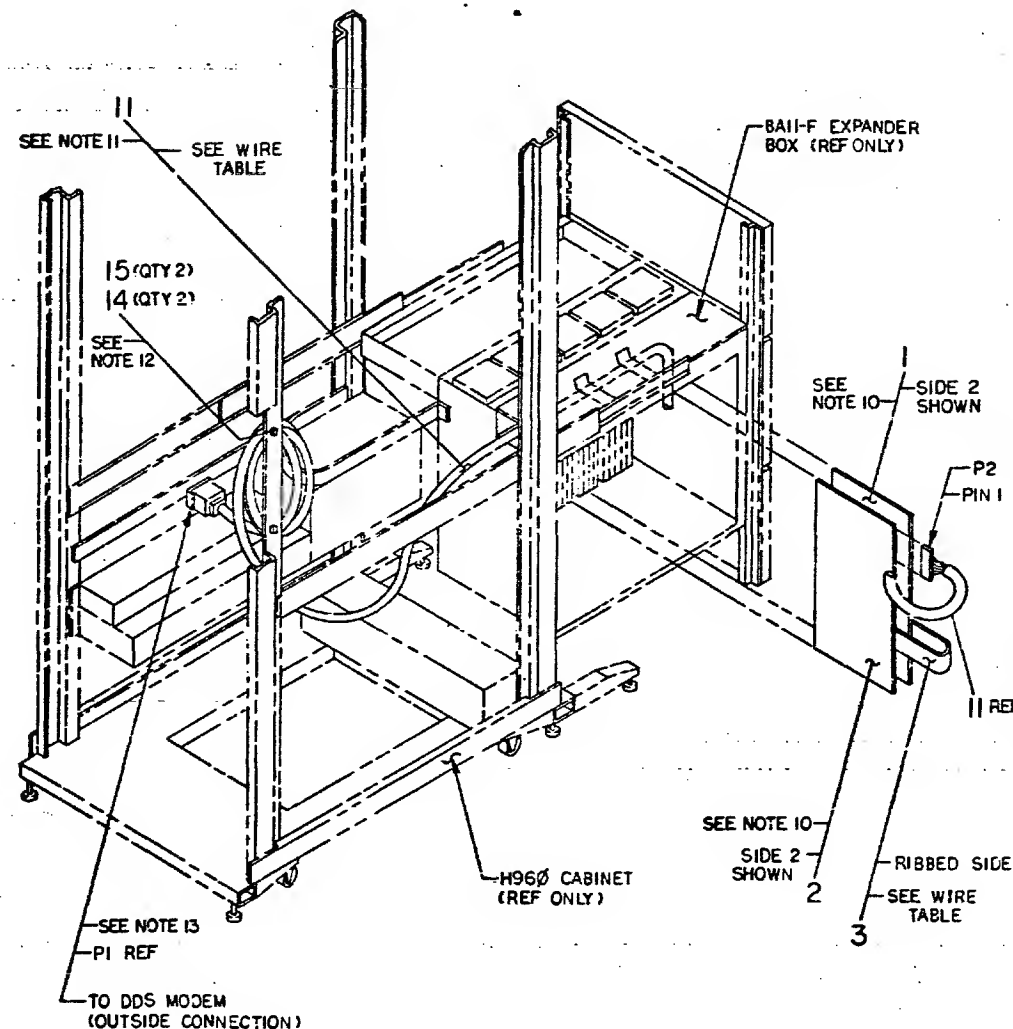
NOTES (CONTINUED):

10. THE ORDER OF MODULES IN BACKPLANE IS NOT FIXED.
11. SECURE CABLE ASSY (ITEM 11) WITH STRAIN RELIEF WHICH IS INTEGRAL TO EACH BAI BOX.
12. EXCESS CABLE TO BE LOOPED AND SECURED WITH 2 TIE MOUNTS, (ITEM 14) AND 2 CABLE TIES, (ITEM 15) AS SHOWN FOR SHIPPING PURPOSES ONLY. REFER TO SHEET 6 FOR CABLE ROUTING WHEN OPTION IS INSTALLED IN H9622 SERIES CABS.
13. H3250 TEST CONNECTOR, (ITEM 7) TO BE CONNECTED TO P1 OF BC052 CABLE ASSY, (ITEM 11) FOR TESTING PURPOSES ONLY.



TYP. INSTALLATION IN  
A BAI-K EXPANDER BOX

THIS CONFIGURATION  
FOR DMR11-AB ONLY



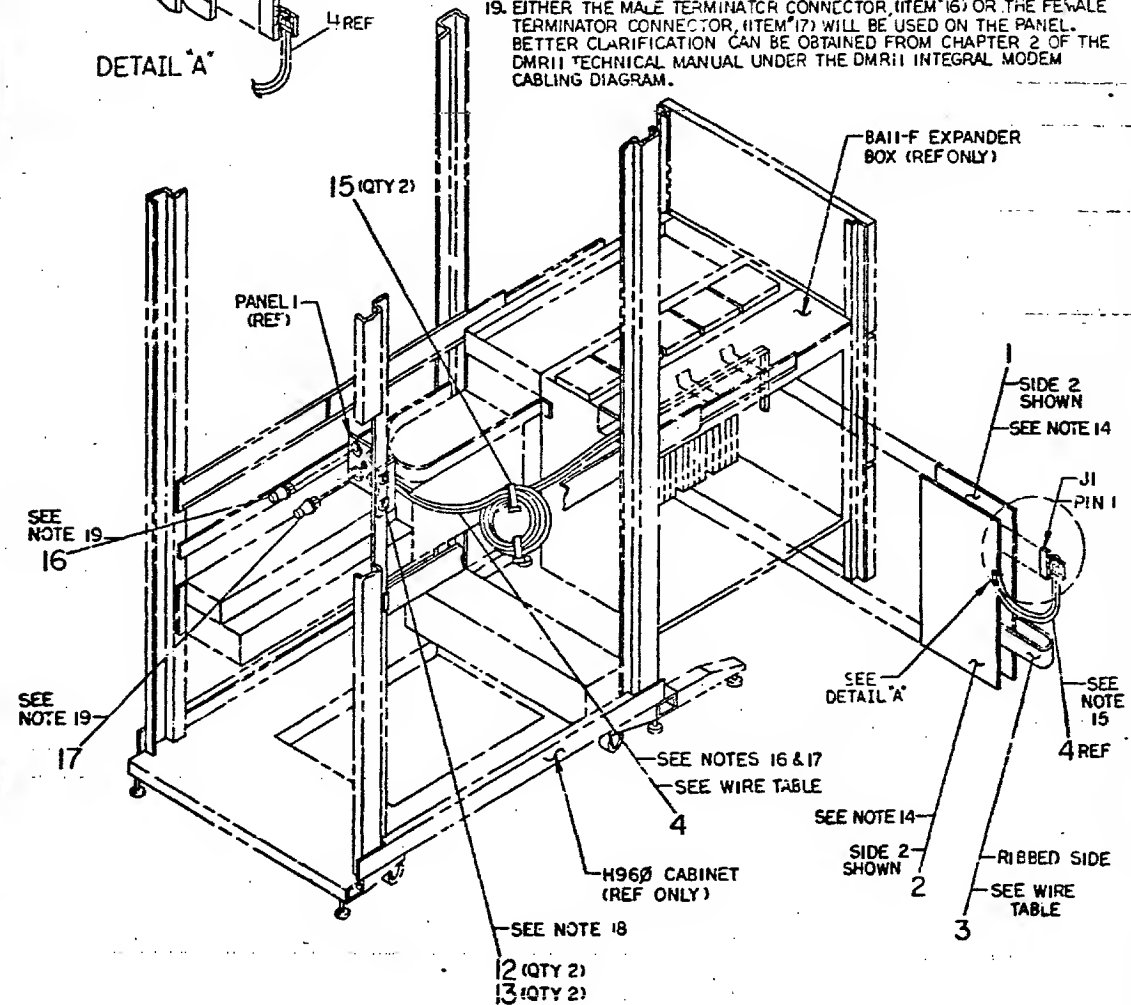
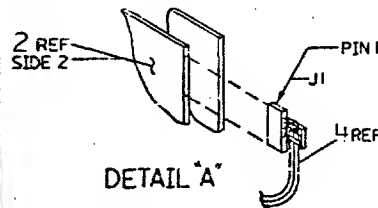
TYP. INSTALLATION IN  
A BAI-F EXPANDER BOX

| REVISIONS |            |      | TITLE            |  |  |  |  |  |  |  |  |  | SIZE CODE |    | NUMBER    |   | REV. |
|-----------|------------|------|------------------|--|--|--|--|--|--|--|--|--|-----------|----|-----------|---|------|
| CHK       | CHANGE NO. | REV. | DMR11 UNIT ASSY. |  |  |  |  |  |  |  |  |  | D         | UA | DMR11-0-0 | 1 |      |
|           |            |      | SCALE            |  |  |  |  |  |  |  |  |  | SHEET     |    | 3 OF 3    |   | MK   |
|           |            |      |                  |  |  |  |  |  |  |  |  |  |           |    |           |   |      |



NOTES (CONTINUED):

14. THE ORDER OF MODULES IN BACKPLANE IS NOT FIXED.
15. CABLES (ITEM "4") TO BE ROUTED UNDER HANDLE OF MODULE (ITEM "2") THEN UP INTO CABLE TROUGH AT A CONVENIENT OPENING BETWEEN LOGIC BACKPLANES. THIS PROCEDURE APPLIES TO BAIL-BOX ONLY.
16. SECURE CABLE ASSY. (ITEM "4") WITH STRAIN RELIEF WHICH IS INTEGRAL TO EACH BAIL BOX.
17. EXCESS CABLE TO BE LOOPED AND SECURED WITH 2 CABLE TIES. (ITEM "15") AS SHOWN WHEN INSTALLED IN H960 SERIES CABS. REFER TO SHEET 6 FOR CABLE ROUTING WHEN OPTION IS INSTALLED IN H9602 SERIES CABS.
18. FOR MOUNTING HOLE LOCATIONS, REFER TO SHEET 6.
19. EITHER THE MALE TERMINATOR CONNECTOR, (ITEM "16") OR THE FEMALE TERMINATOR CONNECTOR, (ITEM "17") WILL BE USED ON THE PANEL. BETTER CLARIFICATION CAN BE OBTAINED FROM CHAPTER 2 OF THE DMR11 TECHNICAL MANUAL UNDER THE DMR11 INTEGRAL MODEM CABLING DIAGRAM.



TYP. INSTALLATION IN  
A BAI-F EXPANDER BOX

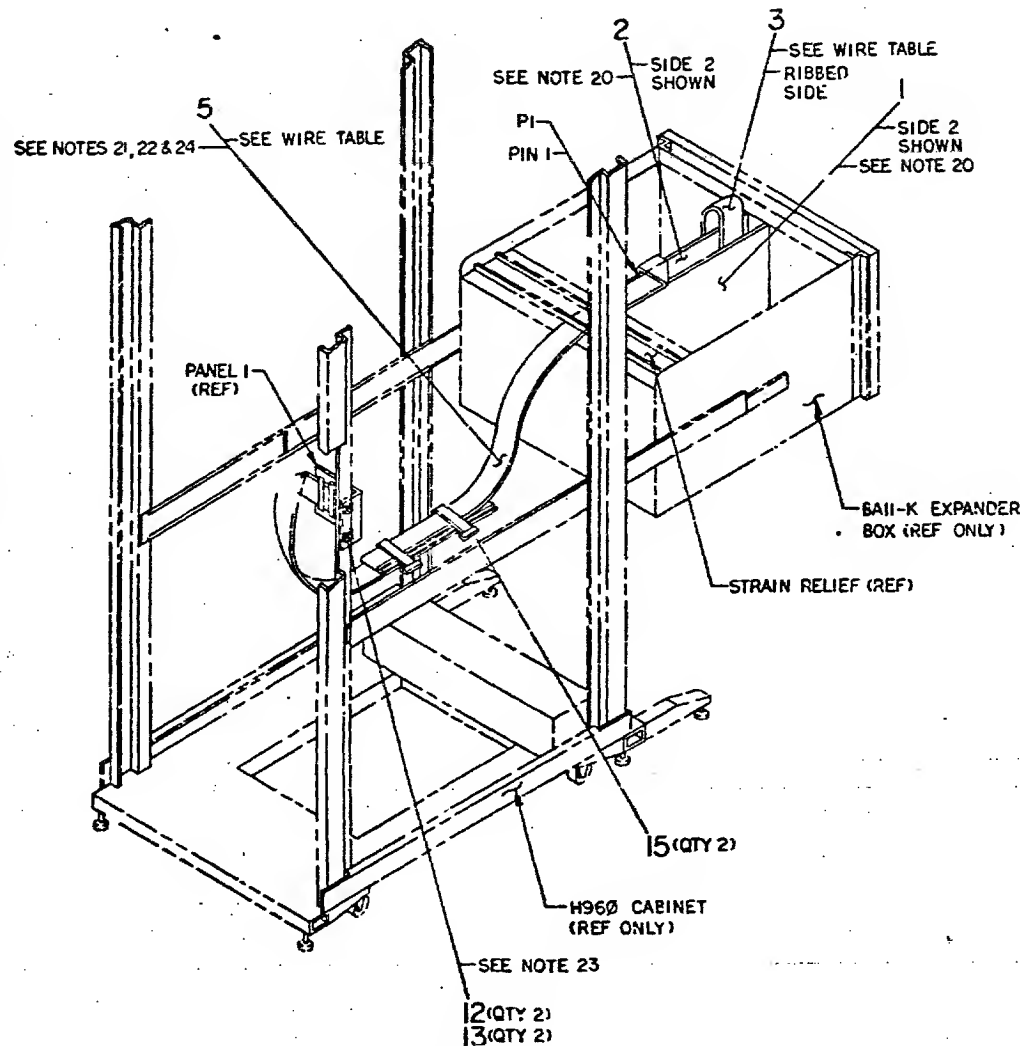
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| TITLE            |  | SIZE   |  | CODE  |  | NUMBER    |  | REV. |  |
| DMRII UNIT ASSY. |  | D      |  | UA    |  | DMRII-Ø-Ø |  | A    |  |
| SCALE            |  | SHEET  |  | DIST. |  |           |  |      |  |
| ← →              |  | 4 OF 8 |  |       |  |           |  |      |  |

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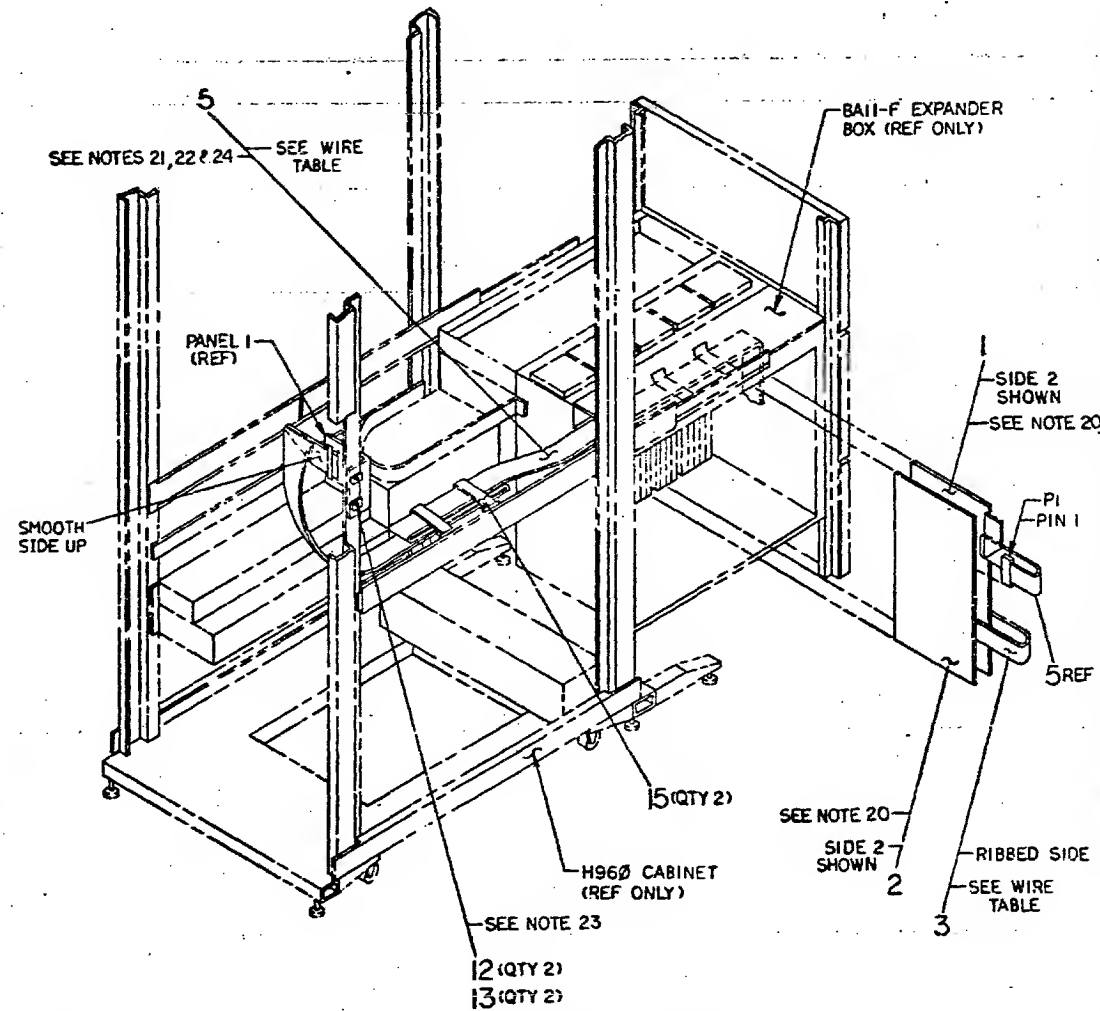
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|-------------|-------------|------|-------------|------|-----------|
| ITEM<br>NO. | FROM        |      | TO          |      | REMARKS   |
|             | CONN        | WITH | CONN        | WITH |           |
| 3           | J1 (ITEM 1) | P2   | J3 (ITEM 2) | P1   | TYP. BOTH |
| 5           | —           | —    | J2 (ITEM 2) | P1   | INSTALL.  |

# NOTES (CONTINUED):

20. THE ORDER OF MODULES IN BACKPLANE IS NOT FIXED.
21. SECURE CABLE ASSY. (ITEM 5) WITH STRAIN RELIEF WHICH IS INTEGRAL TO EACH BAI BOX.
22. EXCESS CABLE TO BE LOOPED AND SECURED WITH 2 CABLE TIES (ITEM 15) AS SHOWN WHEN INSTALLED IN H960 SERIES CABS. REFER TO SHEET 6 FOR CABLE ROUTING WHEN OPTION IS INSTALLED IN H9602 SERIES CABS.
23. FOR MOUNTING HOLE LOCATIONS, REFER TO SHEET 6.
24. H3251 TEST CONNECTOR, (ITEM 8) TO BE CONNECTED TO J2 AT PANEL END OF BC558 CABLE ASSY, (ITEM 5) FOR TESTING PURPOSES ONLY.



TYP. INSTALLATION IN  
A BAI-K EXPANDER BOX



TYP. INSTALLATION IN  
A BAI-F EXPANDER BOX

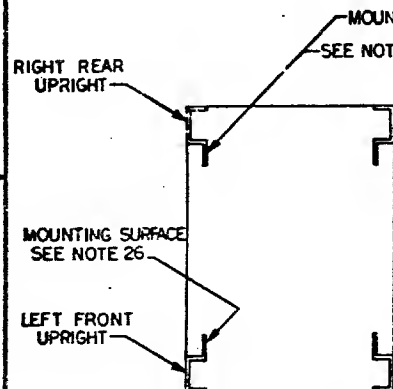
THIS CONFIGURATION  
FOR DMR11-AE ONLY

| REVISIONS |            |      |       |  |        |  |       | TITLE |                  | SIZE CODE | NUMBER    |  | REV. |
|-----------|------------|------|-------|--|--------|--|-------|-------|------------------|-----------|-----------|--|------|
| CHK       | CHANGE NO. | REV. |       |  |        |  |       |       | DMR11 UNIT ASSY. | DUA       | DMR11-0-0 |  | A    |
|           |            |      |       |  |        |  |       |       |                  |           |           |  |      |
| SCALE     |            |      | SHEET |  | 5 OF 8 |  | DIST. |       |                  |           |           |  |      |
|           |            |      |       |  |        |  |       |       |                  |           |           |  |      |

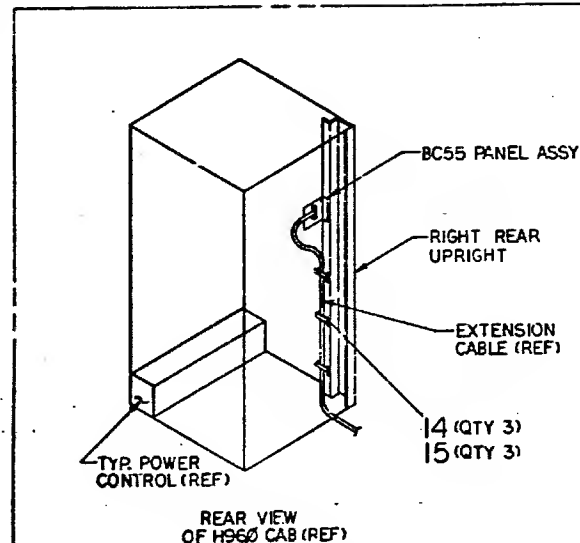
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# MTG. HOLE LOCATIONS FOR MULTIPLE BC55 SERIES CABLES IN H96Ø CABS. CHART APPLIES WHEN ONE (1) BAIL BOX EXISTS, ONLY.

| HOLE CHART-BC55A CABLE ASSY.           |            |                    |                        |
|--|------------|--------------------|------------------------|
| DESCRIPTION                            | MTG. HOLES | MTG. LOCATION      | REMARKS                |
| PANEL *1                               | 93, 97     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *2                                     | 84, 88     |                    |                        |
| *3                                     | 72, 76     |                    |                        |
| *4                                     | 63, 67     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *5                                     | 93, 97     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |
| *6                                     | 84, 88     |                    |                        |
| *7                                     | 72, 76     |                    |                        |
| PANEL *8                               | 63, 67     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |
| HOLE CHART-BC55B & BC55C CABLE ASSY'S. |            |                    |                        |
| DESCRIPTION                            | MTG. HOLES | MTG. LOCATION      | REMARKS                |
| PANEL *1                               | 94, 99     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *2                                     | 92, 87     |                    |                        |
| *3                                     | 73, 78     |                    |                        |
| *4                                     | 61, 66     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *5                                     | 94, 99     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |
| *6                                     | 82, 87     |                    |                        |
| *7                                     | 73, 78     |                    |                        |
| PANEL *8                               | 61, 66     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |



TOP VIEW  
OF H96Ø CAB  
(REF ONLY)



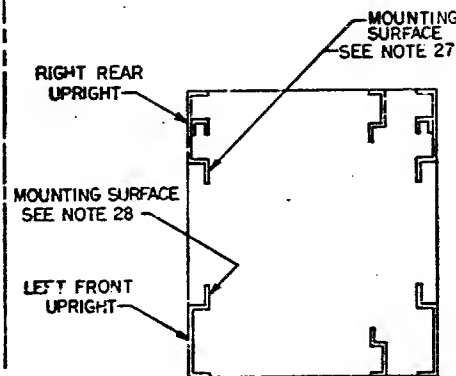
REAR VIEW  
OF H96Ø CAB (REF)  
EXTENSION CABLE ROUTING  
-FOR OPTIONAL EXT. CABLES-

## NOTES (CONTINUED):

- WHEN MULTIPLE OPTIONS ARE USED, PANELS \*1 THRU \*4 OF BC55 SERIES CABLES ARE INSTALLED ON RIGHT REAR UPRIGHT AS SHOWN. REFER TO HOLE CHART ABOVE FOR MTG. HOLE LOCATIONS.
- PANELS \*5 THRU \*8 OF BC55 SERIES CABLES ARE INSTALLED ON LEFT FRONT UPRIGHT AS SHOWN. REFER TO HOLE CHART ABOVE FOR MTG. HOLE LOCATIONS.

# MTG. HOLE LOCATIONS FOR FOR MULTIPLE BC55 SERIES CABLES IN H96Ø2 CABS. CHART APPLIES WHEN ONE (1) BAIL BOX EXISTS, ONLY.

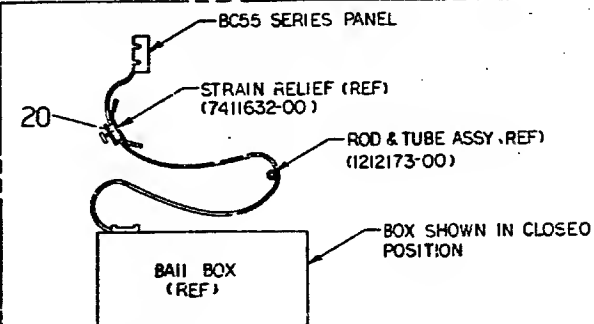
| HOLE CHART-BC55A CABLE ASSY.           |            |                    |                        |
|--|------------|--------------------|------------------------|
| DESCRIPTION                            | MTG. HOLES | MTG. LOCATION      | REMARKS                |
| PANEL *1                               | 81, 85     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *2                                     | 69, 73     |                    |                        |
| *3                                     | 60, 64     |                    |                        |
| *4                                     | 48, 52     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *5                                     | 81, 85     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |
| *6                                     | 69, 73     |                    |                        |
| *7                                     | 60, 64     |                    |                        |
| PANEL *8                               | 42, 46     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |
| HOLE CHART-BC55B & BC55C CABLE ASSY'S. |            |                    |                        |
| DESCRIPTION                            | MTG. HOLES | MTG. LOCATION      | REMARKS                |
| PANEL *1                               | 79, 84     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *2                                     | 70, 75     |                    |                        |
| *3                                     | 58, 63     |                    |                        |
| *4                                     | 49, 54     | RIGHT REAR UPRIGHT | REAR MTG. FACING OUT   |
| *5                                     | 79, 84     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |
| *6                                     | 70, 75     |                    |                        |
| *7                                     | 58, 63     |                    |                        |
| PANEL *8                               | 40, 45     | LEFT FRONT UPRIGHT | FRONT MTG. FACING REAR |



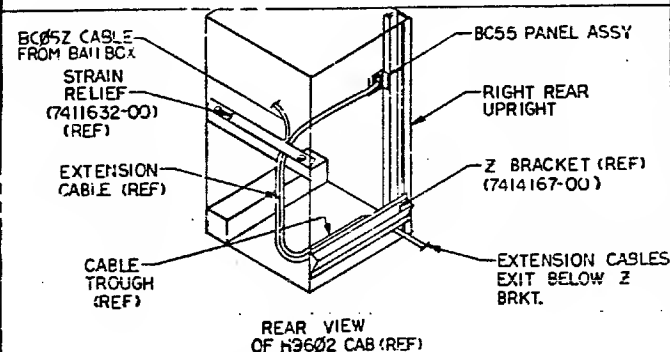
TOP VIEW  
OF H96Ø2 CAB  
(REF ONLY)

## NOTES (CONTINUED):

- WHEN MULTIPLE OPTIONS ARE USED, PANELS \*1 THRU \*4 OF BC55 SERIES CABLES ARE INSTALLED ON RIGHT REAR UPRIGHT AS SHOWN. REFER TO HOLE CHART ABOVE FOR MTG. HOLE LOCATIONS.
- PANELS \*5 THRU \*8 OF BC55 SERIES CABLES ARE INSTALLED ON LEFT FRONT UPRIGHT AS SHOWN. REFER TO HOLE CHART ABOVE FOR MTG. HOLE LOCATIONS.



SIMPLIFIED SIDE VIEW WITHOUT CAB.  
CABLE ROUTING OF BC55 SERIES PANEL  
ASSY. IN H96Ø2 CABS (TYP. ALL INSTALL.)



REAR VIEW  
OF H96Ø2 CAB (REF)  
EXTENSION CABLE ROUTING  
-FOR OPTIONAL EXT. CABLES-

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### M8201 SWITCHES

|      | 1   | 2   | 3   | 4   | 5  | 6  | 7  | 8   | 9   | 10  |
|------|-----|-----|-----|-----|----|----|----|-----|-----|-----|
| E127 | OFF | OFF | OFF | OFF | ON | ON | ON | ON  | ON  | ON  |
|      | A3  | A4  | A5  | A6  | A7 | A8 | A9 | A10 | A11 | A12 |

CSR ADDRESS  
(760170)

SHOWS EXAMPLE  
SEE FLOATING ADDRESS  
ASSIGNMENT FOR INSTALLATION

|     | 1   | 2   | 3   | 4  | 5  | 6   | 7   | 8           |
|-----|-----|-----|-----|----|----|-----|-----|-------------|
| E28 | OFF | OFF | OFF | ON | ON | OFF | ON  | OFF         |
|     | V3  | V4  | V5  | V6 | V7 | V8  | RUN | DISABLE CSR |

VECTOR ADDRESS (300)

|     | 1               | 2      | 3   | 4   |
|-----|-----------------|--------|-----|-----|
| E85 | ON              | OFF    | OFF | OFF |
|     | 0 SEL 1 LOCKOUT | SPARES |     |     |

### M8203 SWITCHES

|                       | 1                   | 2 | 3 | 4 | 5 | 6 | 7 | 8              | 9           | 10 |
|-----------------------|---------------------|---|---|---|---|---|---|----------------|-------------|----|
| E134<br>(SEE NOTE 29) | X                   | X | X | X | X | X | X | X              | X           | X  |
|                       | (LSB) BOOT PASSWORD |   |   |   |   |   |   | (MSB) NOT USED | MICRO-DIAG. |    |

\*(SEE CHART)

|                       | 1                 | 2 | 3 | 4 | 5 | 6 | 7 | 8   | 9 | 10 |
|-----------------------|-------------------|---|---|---|---|---|---|---|---|----|
| E121<br>(SEE NOTE 29) | X                 | X | X | X | X | X | X | X   | X | X  |
|                       | (LSB) BOOT-OFFSET |   |   |   |   |   |   | (MSB) DMC LINE HIGH SPEED COMPATIBLE SELECT |   |    |

\*(SEE CHART)

(X) SYSTEM PROGRAMMERS MUST  
DEFINE SWITCH SETTINGS

|     | 1      | 2   | 3   | 4   | 5   | 6   | 7     | 8         | 9 | 10 |
|-----|--------|-----|-----|-----|-----|-----|-------|-----------|---|----|
| E39 | OFF    | OFF | OFF | OFF | X   | OFF | X     | X         | X | X  |
|     | SPARES |     |     |     | V35 | RES | RS422 | DATA RATE |   |    |

DATA RATE FOR NULL CLK  
AND INTEGRAL MODEM

|           |     |     |     |
|-----------|-----|-----|-----|
| 2.4K BPS  | OFF | OFF | OFF |
| 4.8K BPS  | ON  | OFF | OFF |
| 9.6K BPS  | OFF | ON  | OFF |
| 19.2K BPS | ON  | ON  | OFF |
| 56K BPS   | OFF | OFF | ON  |
| 250K BPS  | ON  | OFF | ON  |
| 500K BPS  | OFF | ON  | ON  |
| 1M BPS    | ON  | ON  | ON  |

### NOTES (CONTINUED):

29. WHEN SWITCHES E121 AND E134 ARE SELECTED IN OFF POSITION THEY CORRESPOND TO A LOGICAL "1".

SWITCH OFF = "1"

E.G. FOR BOOT PASSWORD OF "1" = SET E134 FOR SWITCH 1 = OFF  
" 2-8 = ON  
FOR BOOT OFFSET OF "356" = SET E121 FOR SWITCH 1 & 5 = ON  
" 234 = OFF  
" 678

| SEL 0<br>BIT 13<br>AT MASTER<br>CLEAR TIME | SW 10 AT<br>E134 ON<br>M8223 | EXECUTION OF MICRODIAGNOSTICS |
|--|------------------------------|-------------------------------|
| CLEAR                                      | ON                           | NO MICRODIAGNOSTICS IS RUN    |
| CLEAR                                      | OFF                          | RUN MICRODIAGNOSTICS          |
| SET  | ON                           | RUN MICRODIAGNOSTICS          |
| SET  | OFF                          | NO MICRODIAGNOSTICS IS RUN    |

| MODE<br>OF<br>OPERATION  | DMC LINE<br>COMPATIBLE<br>SWITCH (SW5) | HIGH<br>SPEED<br>SWITCH<br>(SW10) |
|--|--|-----------------------------------|
| LINE SPEED LESS<br>THAN 1 MBPS AND<br>DCCMP V4 PROTO-<br>COL SELECTED<br>(NOT CONNECTED TO<br>DMC11) | ON                                     | ON                                |
| LINE SPEED IS 1<br>MBPS AND DCCMP<br>V4 PROTOCOL<br>SELECTED (NOT<br>CONNECTED TO<br>DMC11)          | ON                                     | OFF                               |
| CONNECTED TO<br>DMC11-AR<br>(M8205-YA)   | OFF                                    | ON                                |
| CONNECTED TO<br>DMC11-AL<br>(M8205-YB)   | OFF                                    | OFF                               |

| REV. | CHANGE NO. | REVISIONS |
|------|------------|-----------|
|      |            |           |

| TITLE            | SHEET  | NUMBER    | REV. |
|------------------|--------|-----------|------|
| DMR11 UNIT ASSY. | 7 OF 8 | DMR11-3-0 | A    |
| SCALE            |        |           |      |

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## CONTROL AND STATUS REGISTERS

|                          |      |             |         |                    |                     |       |         |        |
|--------------------------|------|-------------|---------|--------------------|---------------------|-------|---------|--------|
| 7                        | 6    | 5           | 4       | 3                  | 2                   | 1     | 0       |        |
| RDI                      | IEI  | RQI         |         | INPUT COMMAND CODE |                     |       |         | BSEL 0 |
| RUN                      | MCLP | MICRO-DIAG. | STEP LU | LU LOOP            | ROM O               | ROM I | STEP UP | 1      |
| RQY O                    | IEO  |             |         |                    | OUTPUT COMMAND CODE |       |         | 2      |
| MICRO-DIAGNOSTIC RESULTS |      |             |         |                    |                     |       |         | 3      |
| INPUT/OUTPUT COMMANDS    |      |             |         |                    |                     |       |         | 4      |
| DATA PORT                |      |             |         |                    |                     |       |         | 5      |
|                          |      |             |         |                    |                     |       |         | 6      |
|                          |      |             |         |                    |                     |       |         | 7      |

| INPUT COMMAND CODE |   |   |   | FUNCTION          |
|--------------------|---|---|---|-------------------|
| 6SEL 0 BIT         |   |   |   |                   |
| 3                  | 2 | 1 | 0 |                   |
| 0                  | 0 | 0 | 0 | TRANSMIT BA/CC IN |
| 0                  | 0 | 0 | 1 | CONTROL IN        |
| 0                  | 0 | 1 | 0 | HALT REQUEST.     |
| 0                  | 0 | 1 | 1 | BASE IN           |
| 0                  | 1 | 0 | 0 | RECEIVE BA/CC IN  |

| OUTPUT COMMAND CODE |   |   | FUNCTION           |
|---------------------|---|---|--------------------|
| BSEL 2 BIT          |   |   |                    |
| 2                   | 1 | 0 |                    |
| 0                   | 0 | 0 | TRANSMIT BA/CC OUT |
| 0                   | 0 | 1 | CONTROL OUT        |
| 1                   | 0 | 0 | RECEIVE BA/CC OUT  |

### MICRO-DIAGNOSTIC RESULTS

| BIT | 7               | 6                 |  | 1           | 0           |
|-----|-----------------|-------------------|--|-------------|-------------|
|     | TEST<br>SUCCESS | TEST<br>INHIBITED |  | LU<br>FAILS | UP<br>FAILS |

BSEL 3

BASE IN FOR IAT

|     |                              |           |   |        |   |   |   |   |        |
|-----|------------------------------|-----------|---|--------|---|---|---|---|--------|
| BIT | 7                            | 6         | 5 | 4      | 3 | 2 | 1 | 0 |        |
|     | BASE TABLE ADDRESS LOW BYTE  |           |   |        |   |   |   |   | BSEL 4 |
|     | BASE TABLE ADDRESS HIGH BYTE |           |   |        |   |   |   |   | BSEL 5 |
|     |                              |           |   |        |   |   |   |   | BSEL 6 |
|     | B/A<br>17                    | S/A<br>16 |   | RESUME |   |   |   |   | BSEL 7 |

CONTROL IN FORMAT

|     |   |   |   |   |                |     |   |               |        |
|-----|---|---|---|---|----------------|-----|---|---------------|--------|
| BIT | 7 | 6 | 5 | 4 | 3              | 2   | 1 | 0             |        |
|     |   |   |   |   |                |     |   |               | BSEL 4 |
|     |   |   |   |   |                |     |   |               | BSEL 5 |
|     |   |   |   |   |                |     |   |               | BSEL 6 |
|     |   |   |   |   | START<br>TIMER | MDX |   | DOOMP<br>MANT | BSEL 7 |

## TRANSMIT/RECEIVE BA/CC IN AND OUT FORMAT

|   |        |                            |
|---|--------|----------------------------|
| <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>7</span><span>6</span><span>5</span><span>4</span><span>3</span><span>2</span><span>1</span><span>0</span> </div> |        |                            |
| BUS ADDRESS LOW BYTE  |        | BSEL 4                     |
| BUS ADDRESS HIGH BYTE   |        | BSEL 5                     |
| CHARACTER COUNT (BIT 7:0)   |        | BSEL 6                     |
| B/A 17  | B/A 16 | CHARACTER COUNT (BIT 13:8) |
|   |        | BSEL 7                     |

CONTROL OUT FORMAT

7 6 5 4 3 2 1 0

BSL 4

BSL 5

| START<br>RECD | DISC | MSG<br>ID | FLYMP<br>ID | NO<br>BUF | TIME<br>OUT  | MAX<br>THRES |
|---------------|------|-----------|-------------|-----------|--------------|--------------|
|               |      |           |             |           | HALT<br>COMP | NXM          |

BSL 6

BSL 7

|            |            |      |  |  |  |  |  |  |                   |           |            |       |
|------------|------------|------|--|--|--|--|--|--|-------------------|-----------|------------|-------|
| REV. SIONS |            |      |  |  |  |  |  |  | TITLE             | SIZE CODE | NUMBER     | REV.  |
| CHK        | CHANGE NO. | REV. |  |  |  |  |  |  | DMR.II UNIT ASSY. | D UA      | DMR.II-0-0 | A     |
|            |            |      |  |  |  |  |  |  | SCALE             | SHEET     | 8 OF 8     | DIST. |
|            |            |      |  |  |  |  |  |  |                   | MK        |            |       |

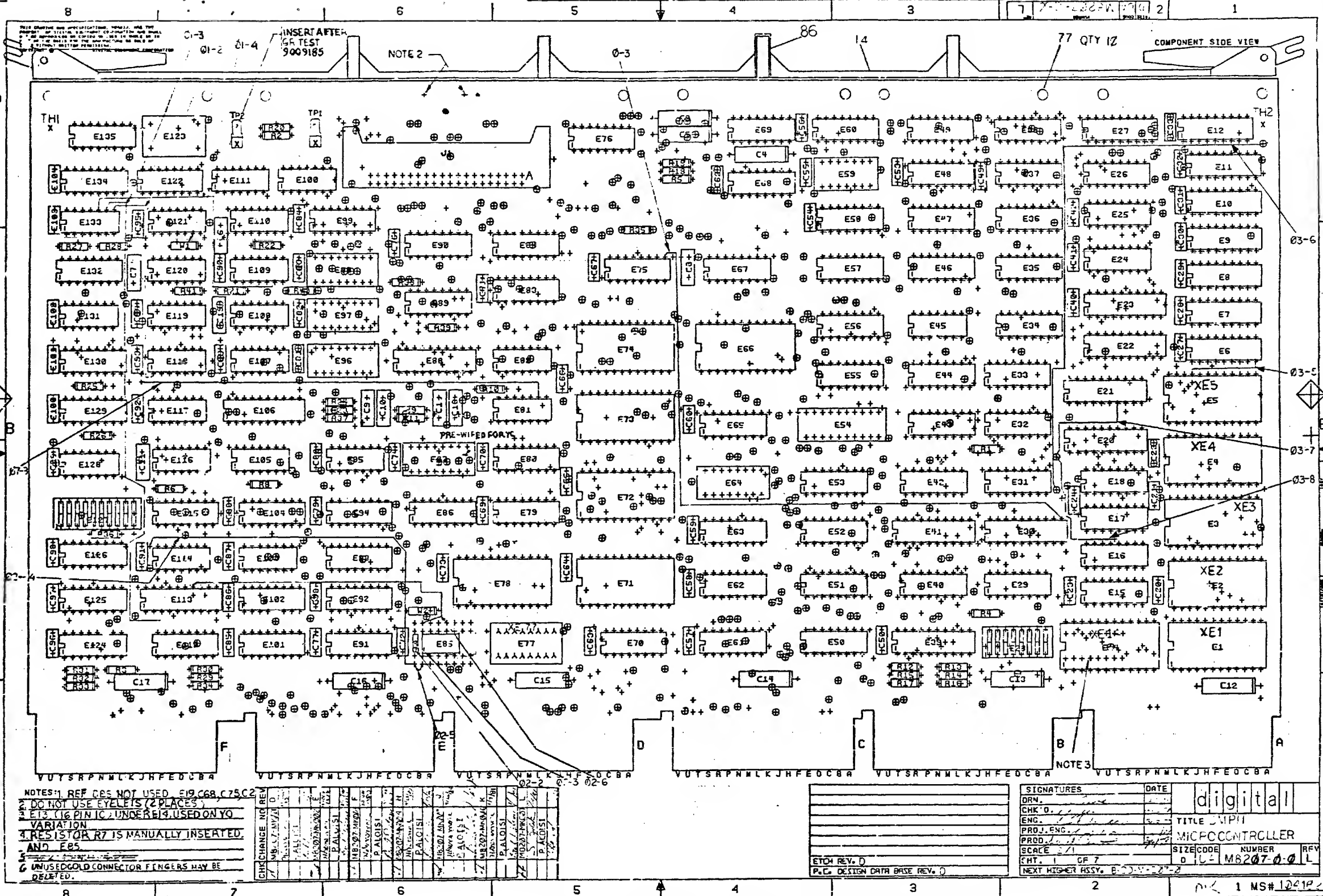
| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                         | QUANTITY PER VARIATION |    |     |    |     |
|------|------|------------------|-------------|-------------------------------------|------------------------|----|-----|----|-----|
|      |      |                  |             |                                     | AA                     | AB | AC  | AD | AE  |
| 1    | 1    | D-UA-M8207-0-0   | M8207-RA    | MICROPROCESSOR BASED SYNCHRONOUS    | 1                      | 1  | 1   | 1  | 1   |
| 2    | 2    | D-UA-M8203-0-0   | M8203-00    | DMP11 LINE UNIT, RS-449, INTEGRAL   | 1                      | 1  | 1   | 1  | 1   |
| 3    | 3    | D-IA-BC08S-0-0   | BC08S-01    | 1/0 CABLE ASSY 1FT                  | 1                      | 1  | 1   | 1  | 1   |
| 4    | 4    | D-UA-BC55A-0-0   | BC55A-10    | CABLE INTEGRAL MODEM                | -                      | -  | 1   | -  | -   |
| 5    | 5    | D-UA-BC55B-0-0   | BC55B-10    | EIA RS422 CABLE                     | -                      | -  | -   | -  | 1   |
| 6    | 6    | D-UA-BC55C-0-0   | BC55C-10    | EIA RS232/RS423 CABLE               | 1                      | -  | -   | -  | -   |
| 7    | 7    | C-IA-H3250-0-0   | H3250-00    | DDS TEST CONN                       | -                      | 1  | -   | -  | -   |
| 8    | 8    | D-UA-H3251-0-0   | H3251-00    | TEST CONNECTOR RS422                | 1                      | -  | -   | -  | 1   |
| 9    | 9    | D-UA-H3254-0-0   | H3254-00    | M8203 TEST CONNECTOR J1             | 1                      | 1  | 1   | 1  | 1   |
| 10   | 10   | D-UA-H3255-0-0   | H3255-00    | M8203 TEST CONNECTOR J2             | 1                      | -  | 1   | 1  | 1   |
| 11   | 11   | D-UA-BC05Z-0-0   | BC05Z-25    | CABLE, H854 TC V35 - 25 FT          | -                      | 1  | -   | -  | -   |
| 12   | 12   |                  | 9007786-00  | RETAINER, U-NUT, 10-32              | 2                      | -  | 2   | -  | 2   |
| 13   | 13   |                  | 9009700-00  | SCREW, SEMS, PHILLIPS TRUSS HD 1    | 2                      | -  | 2   | -  | 2   |
| 14   | 14   |                  | 9007867-00  | MOUNT, PUSH, CABLE TIE              | 3                      | 5  | 3   | -  | 3   |
| 15   | 15   |                  | 9009617-00  | TIE, CABLE BUNDL. LIA 0-3" TYPE=101 | 5                      | 5  | 5   | -  | 5   |
| 16   | 16   | D-UA-H3257-0-0   | H3257-00    | MALE TERMINATOR FOR INTEGRAL MOO    | -                      | -  | 1   | -  | -   |
| 17   | 17   | D-UA-H3258-0-0   | H3258-00    | FEMALE TERMINATOR FOR INTEGRAL M    | -                      | -  | 1   | -  | -   |
| 18   | 18   | A-SP-3700390-0-0 | 3700390-07  | PKG GENERAL PURPOSE SKIN PACKED     | 1                      | 1  | 1   | 1  | 1   |
| 19   | 19   | B-PL-DHR11-0     |             | SHIPPING LIST, DHR11                | 1                      | 1  | 1   | 1  | 1   |
| 20   | 20   |                  | 9008214-00  | FOAM, TAPE, ADHESIVE BACK-POLYURE   | A/R                    | 0  | A/R | 0  | A/R |
| 21   | 21   | D-CS-H325-0-1    | OH325-00    | CONN. MODEM TEST                    | 1                      | 0  | 0   | 0  | 0   |

22 NOTE: 1. OPTIONAL EQUIPMENT: D-UA-BC05D-25-0, D-UA-BC55M-98-0, D-UA-BC55N-98-0.

| REVISION HISTORY |             |     | BASIC PART NO: DHR11     |  | DRN: D. ZWICKER           |  | DATE: 08-FEB-80      |  | DBP DIGITAL            |  |
|------------------|-------------|-----|--------------------------|--|---------------------------|--|----------------------|--|------------------------|--|
| ENC              | ECO NUMBER  | REV | SECTION A OF A           |  | CHK'D: G. MOVEY           |  | DATE: 08-FEB-80      |  | TITLE PARTS LIST       |  |
| 1                | INITIAL     | 1   | SECTION, VARIATION INDEX |  | DES. ENG.: H. YANG        |  | DATE: 08-FEB-80      |  | DHR11 UNIT ASSY        |  |
| 1                | DHR11-MK001 | 1A  | [A] AA, AB, AC, AD, AE   |  | RESP. ENG.: R. HARRINGTON |  | DATE: 08-FEB-80      |  | DOCUMENT NUMBER        |  |
|                  |             |     | [B]                      |  | INF. ENG.: J. ARMBRUSTER  |  | DATE: 08-FEB-80      |  | SIZE: CODE: NUMBER REV |  |
|                  |             |     | [C]                      |  | ASSEMBLY NUMBER:          |  | TOP DOCUMENT NUMBER: |  | FILE NAME:             |  |
|                  |             |     | [D]                      |  | D-UA-DHR11-0-0            |  | B-CD-DHR11-0         |  | MK0021.PLS             |  |
|                  |             |     | [E]                      |  |                           |  |                      |  | EDIT #                 |  |
|                  |             |     | [F]                      |  |                           |  |                      |  | 6                      |  |

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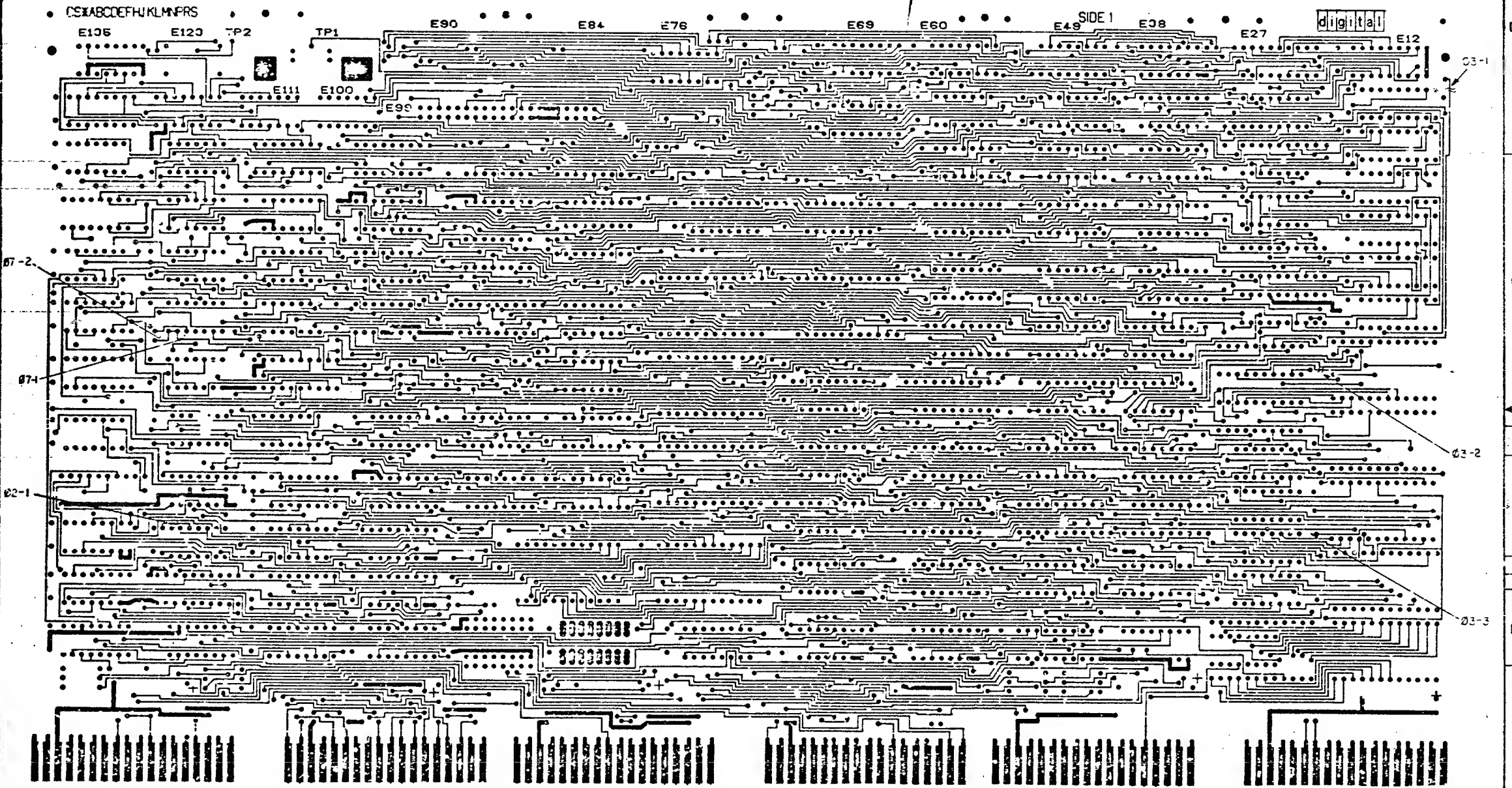
MK





CSX ABCDEFHJ KLMNPRS

NOTE Ø-1

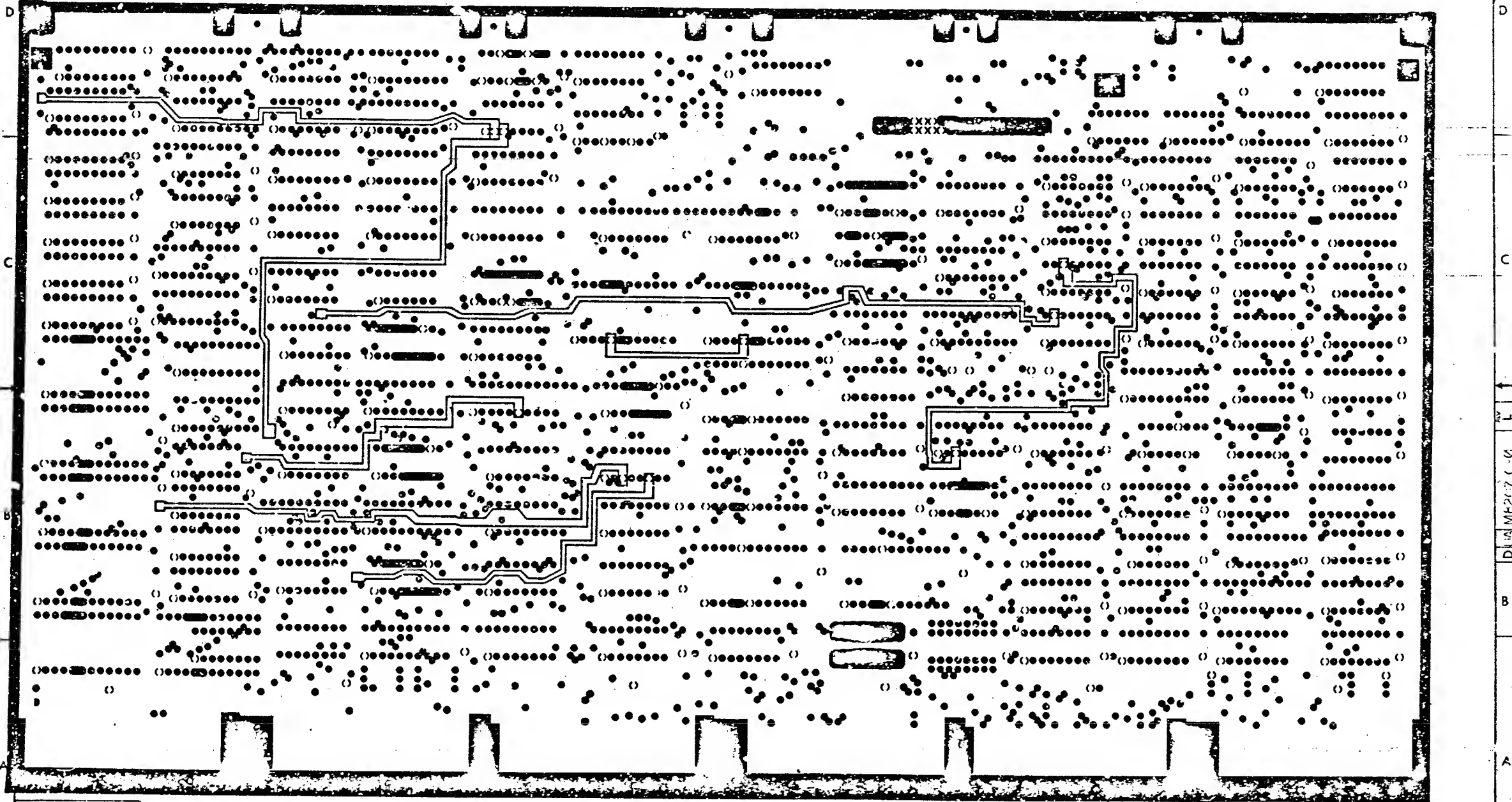




L2 

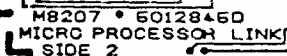
50128450 M8207  
MICROPROCESSOR LINK

LAVERE 2





1



23-4

|                        |     |           |        |             |  |
|------------------------|-----|-----------|--------|-------------|--|
| TITLE                  |     | SIZE CODE |        | WVVBH       |  |
| DMPH MICROC CONTROLLER |     | DUA       |        | M8207-0-0 L |  |
| SCALE                  | 2/1 | SHEET     | 5 OF 7 | DIST        |  |

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# REWORK INSTRUCTIONS:

## RETROFIT M8207 REV. C

### ETCH CUT SIDE 1:

Ø1-1. AT E67-9.

### ETCH CUT SIDE 2:

Ø2-2. AT E30-11.

### WIRE ADDS:

Ø3-3. FROM E30-11 TO E75-9.

## RETROFIT M8207 REV. D.

### ETCH CUT SIDE 1:

Ø1-1. AT E113-3.

### WIRE ADDS:

Ø1-2. FROM E133-8 TO E118-1.

Ø1-3. FROM E133-9 TO E113-3.

Ø1-4. FROM E133-10 TO E109-6.

## RETROFIT M8207 REV. E.

### ETCH CUT SIDE 1

Ø2-1 AT E114-12.

### COMPONENT ADDS

Ø2-2 1K RESISTOR 1300365-00

E85-1 TO E85-16 PTH.

Ø2-3 SW 1211164-00 OR 1211164-C1.

SW1 IN E85-2

### WIRE ADDS

Ø2-4 FROM PTH NEAR E114-14 TO E85-1.

Ø2-5 FROM E85-1 TO E85-2.

Ø2-6 FROM E85-15 TO E113-14.

## M8207 REV. L.

### ETCH CUTS SIDE 1

Ø7-1 AT E118-2

Ø7-2 AT E118-1

### WIRE ADD

Ø7-3 E81-9 TO PTH BELOW LEFT OF E118-1

| REV. KINS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

| TITLE                  |              | SIZE CODE | NUMBER    | REV. |
|------------------------|--------------|-----------|-----------|------|
| DAIPII MICROCONTROLLER |              | DUA       | M8207-Ø Ø | I.   |
| SCALE                  | SHEET 6 OF 7 | DIST      |           |      |

DUA M8207-Ø-Ø

"RA" ONLY

RETROFIT M8207 REV F. ECO M8207-MK003.

REWORK INSTRUCTIONS M8207-RA VARIATION, CS REV F:

ETCH CUT SIDE 1:

- Ø3-1 FROM E21 PIN 13 TO E59 PIN 12 NEAR E11 PIN 10.
- Ø3-2 FROM E21 PIN 7 TO E5 PIN 21 BETWEEN E21 AND E5.
- Ø3-3 FROM E21 PIN 21 TO E17 PIN 12 NEAR E16 PIN 9.

ETCH CUT SIDE 2:

- Ø3-4 AT P.T.H. ABOVE AND TO LEFT OF E31 PIN 6.

WIRE ADDS:

- Ø3-5 FROM E5 PIN 21 TO E6 PIN 9.
- Ø3-6 FROM VIA HOLE NEAR E12 PIN 9 TO VIA HOLE NEAR E31 PIN 8.
- Ø3-7 FROM VIA HOLE NEAR E20 PIN 1 TO E21 PIN 7.
- Ø3-8 FROM VIA HOLE NEAR E20 PIN 1 TO VIA HOLE NEAR E16 PIN 12.

M8207 REV L

ETCH CUTS SIDE 1

- Ø7-1 AT E118-2
- Ø7-2 AT E118-1

WIRE ADDS

- Ø7-3 E81-9 TO PTH BELOW LEFT OF E118-1

| REVISIONS |           |      |
|-----------|-----------|------|
| CHK       | CHANGE NO | REV. |
|           |           |      |
|           |           |      |
|           |           |      |
|           |           |      |
|           |           |      |
|           |           |      |
|           |           |      |

| TITLE                 | SIZE/COO     | NUMBER       | REV. |
|-----------------------|--------------|--------------|------|
| DMP11 MICROCONTROLLER | D            | UA M8207-0-0 | L    |
| SCALE NONE            | SHEET 7 OF 7 | DIST.        |      |

DUA M8207-0-0 L

| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                    | QTY PER VARIATION |    |    | REFERENCE DESIGNATOR                        |
|------|------|------------------|-------------|--------------------------------|-------------------|----|----|---|
|      |      |                  |             |                                | 00                | YA | RA |   |
| 1    | 1    | D-MD-5012845-0-0 | 5012845-00  | M8207                          | 1                 | 1  | 1  |   |
| 2    | 2    |                  | 1000042-00  | 1000.0 MHF 100V 5X200PPH MICA  | 3                 | 3  | 3  | C1,C7,C11                                   |
| 3    | 3    |                  | 1010031-00  | .15 MFD 50V 10% H.POLYCARB     | 1                 | 1  | 1  | C3  |
| 4    | 4    |                  | 1000073-00  | 39 MFC 10V 10% S.TANT          | 1                 | 1  | 1  | C4  |
| 5    | 5    | NOTE 1           | 1012084-01  | 8 MFD 25V +75-10% AL EL        | 7                 | 7  | 7  | C5,C12-C.7                                  |
| 6    | 6    |                  | 1000017-00  | 100.0 MHF 300V 5S200PPH MICA   | 2                 | 2  | 2  | C6,C8                                       |
| 7    | 7    |                  | 1000026-00  | 580.0 MHF 100V 5X200PPH MICA   | 2                 | 2  | 2  | C9,C10                                      |
| 8    | 8    |                  | 1000011-00  | 47.0 MHF 100V 5X200PPH MICA    | 1                 | 1  | 1  | C18   |
| 9    | 9    |                  | 1002427-00  | 15.0 MHF 100V 5X200PPH MICA    | 1                 | 1  | 1  | C19   |
| 10   | 10   |                  | 1010274-01  | .22 MFD 50V +80-20% Z5U CER    | 25                | 25 | 25 | C20-C24,C27-C33,C40-C42,C49,C50,<br>C53-C60 |
| 11   | 11   |                  | 1001610-01  | .01 MFD50/100V +80-20% DISC    | 41                | 41 | 41 | C62-C67,C69-C74,C76-C104                    |
| 12   | 12   |                  | 1209941-02  | HEADER 100 40°DS RT ANGLE      | 1                 | 1  | 1  | J1  |
| 13   | 13   |                  | 1212385-04  | SKY,IC 24PIN DIP GOLD PLATE    | 6                 | 6  | 6  | XE1-XE5,X*14                                |
| 14   | 14   |                  | 1216983-02  | HANDLE,MODULE,HEX TWO EJECTORS | 1                 | 1  | 1  |   |
| 15   | 15   |                  | 1209838-00  | SKT,1C 16PIN DIP GOLD PLATE    | 1                 | 1  | 1  | XE77  |
| 16   | 16   |                  | 1300229-00  | 100.0 .25 W 5.0 X CC           | 6                 | 6  | 6  | R1,R22,R23,R35,R37,R41                      |
| 17   | 17   |                  | 1300365-00  | 1.0 K .25 W 5.0 X CC           | 17                | 17 | 17 | R2-R8,R12-R17,R24,R36,R39,R40               |
| 18   | 18   |                  | 1300271-00  | 220.0 .25 W 5.0 X CC           | 1                 | 1  | 1  | R9  |
| 19   | 19   |                  | 1301890-00  | 560.0 .25 W 5.0 X CC           | 1                 | 1  | 1  | R10   |
| 20   | 20   |                  | 1301322-00  | 180.0 .25 W 5.0 X CC           | 5                 | 5  | 5  | R11,R29,R32-R34                             |
| 21   | 21   |                  | 1309419-00  | 19.60 K .25 W 1.0 X RN55D-F10  | 1                 | 1  | 1  | R18   |
| 22   | 22   |                  | 1302514-00  | 39.0 K .25 W 5.0 X CC          | 1                 | 1  | 1  | R19   |
| 23   | 23   |                  | 1301317-00  | 10.0 .25 W 5.0 X CC            | 3                 | 3  | 3  | R20,R21,R38                                 |
| 24   | 24   | BLANK            |             | *** THIS ITEM IS NOT USED ***  | -                 | -  | -  |   |
| 25   | 25   |                  | 1303179-00  | 8.20 K .25 W 5.0 X CC          | 2                 | 2  | 2  | R26,R27                                     |
| 26   | 26   |                  | 1302177-00  | 47.0 K .25 W 5.0 X CC          | 2                 | 2  | 2  | R25,R28                                     |
| 27   | 27   |                  | 1300309-00  | 390.0 .25 W 5.0 X CC           | 2                 | 2  | 2  | R30,R31                                     |
| 28   | 28   |                  | 23027F4-00  | F4-01                          | -                 | 1  | -  | E1  |
| 29   | 29   |                  | 2114523-00  | 4K MOS RAM 55NS 18P1N          | 8                 | 8  | 8  | E6-E12,E27                                  |

| REVISION HISTORY |             |     | BASIC PART NO: M8207    |  | DRN: J. PLANTE |              | DATE: 14-MAR-79 |           | D E P                 |  | D I G I T A L |  |
|------------------|-------------|-----|-------------------------|--|----------------|--------------|-----------------|-----------|-----------------------|--|---------------|--|
| ENG              | ECO NUMBER  | REV | SECTION 4 OF A          |  | CHK'D:         | J. PELLETIER | DATE:           | 14-MAR-79 | TITLE PARTS LIST      |  |               |  |
| IMK002           |             | ID  | SECTION VARIATION INDEX |  | DES.ENG:       | P. ALOISI    | DATE:           | 14-MAR-79 | DMP11 MICROCONTROLLER |  |               |  |
| IPA              | M8207-MK003 | IE  | [A] 00-YA,RA            |  | RESP.ENG:      | P. ALOISI    | DATE:           | 07-JAN-81 | DOCUMENT NUMBER       |  |               |  |
| IPB              | M8207-MK005 | IH  | [B]                     |  |                |              |                 |           | SIZE CODE NUMBER      |  |               |  |
| IPC              | M8207-MK006 | IJ  | [C]                     |  |                |              |                 |           | REV                   |  |               |  |
| IRH              | M8207-MK007 | IK  | [D]                     |  |                |              |                 |           | MFG.ENG.: W. KNAPP    |  |               |  |
|                  |             |     | [E]                     |  |                |              |                 |           | DATE:                 |  |               |  |
|                  |             |     | [F]                     |  |                |              |                 |           | K PL M8207-0-0        |  |               |  |
|                  |             |     | [G]                     |  |                |              |                 |           | ASSEMBLY NUMBER:      |  |               |  |
|                  |             |     | [H]                     |  |                |              |                 |           | TOP DOCUMENT NUMBER:  |  |               |  |
|                  |             |     | [I]                     |  |                |              |                 |           | FILE NAME:            |  |               |  |
|                  |             |     | [J]                     |  |                |              |                 |           | EDIT #                |  |               |  |
|                  |             |     | [K]                     |  |                |              |                 |           | 17                    |  |               |  |
|                  |             |     | [L]                     |  |                |              |                 |           |                       |  |               |  |
|                  |             |     | [M]                     |  |                |              |                 |           |                       |  |               |  |
|                  |             |     | [N]                     |  |                |              |                 |           |                       |  |               |  |

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| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                   | QTY | PER | 00 | YA | RA | VARIATION | REFERENCE DESIGNATOR                   |
|------|------|------------------|-------------|-------------------------------|-----|-----|----|----|----|-----------|--|
| 30   | 30   |                  | 1911579-00  | 8441 TRANSCEIVER,BUS,QUA      | 10  | 10  | 10 |    |    |           | E50,E51,E61,E62,E91-E93,E101,E102,E115 |
| 31   | 31   |                  | 1913294-00  | 93S16 COUNTER,SYNCH UP BIN    | 7   | 7   | 7  |    |    |           | E15-E18,E24-E26                        |
| 32   | 32   |                  | 1914214-00  | LS374 FF-D OCTAL EDGE TRIG    | 4   | 4   | 4  |    |    |           | E20-E23                                |
| 33   | 33   |                  | 1912847-00  | LS157 MUX 1 OF 2(QUAD)        | 9   | 9   | 9  |    |    |           | E29,E31,E40,E42,E52,E63,E70,E79,E94    |
| 34   | 34   |                  | 1913671-00  | 74S374 FF-D OCTAL TRISTATE    | 3   | 3   | 3  |    |    |           | E30,E41,E54                            |
| 35   | 35   |                  | 23202A1-00  | A1-07                         | 1   | 1   | 1  |    |    |           | E32                                    |
| 36   | 36   |                  | 1511675-00  | 74S138 DECODER/DEMUX 3-8 LIN  | 4   | 4   | 4  |    |    |           | E33,E56,E80,E96                        |
| 37   | 37   |                  | 1912728-00  | 74S251 MUX 1 OF 8 TRI-STA     | 8   | 8   | 8  |    |    |           | E34-E36,E46-E48,E57,E50                |
| 38   | 38   |                  | 1912697-00  | LS174 FF-D HEX W/CLEAR        | 3   | 3   | 3  |    |    |           | E37,E43,E97                            |
| 39   | 39   |                  | 1912696-00  | LS194A SHIFT REG.,4BIT BI-D   | 2   | 2   | 2  |    |    |           | E38,E47                                |
| 40   | 40   |                  | 1913462-00  | 74S240 OCTAL BUFFER,INVERTI   | 4   | 4   | 4  |    |    |           | E39,E88,E106,E113                      |
| 41   | 41   |                  | 23120A1-00  | A1-07                         | 1   | 1   | 1  |    |    |           | E44                                    |
| 42   | 42   |                  | 1910539-00  | 74S20 NAND GATE-DUAL 4INPU    | 1   | 1   | 1  |    |    |           | E45                                    |
| 43   | 43   |                  | 1912447-00  | LS257 MUX 1 OF 2 (QUAD)       | 2   | 2   | 2  |    |    |           | E53,E64                                |
| 44   | 44   |                  | 1910956-00  | 74S151 MUX 1 OF 8             | 1   | 1   | 1  |    |    |           | E55                                    |
| 45   | 45   |                  | 1910532-00  | 74S00 NAND GATE-QUAD 2IN      | 2   | 2   | 2  |    |    |           | E59,E108                               |
| 46   | 46   |                  | 1910549-00  | 74S158 MUX 1 OF 2 (QUAD)      | 1   | 1   | 1  |    |    |           | E60                                    |
| 47   | 47   |                  | 23121A1-00  | A1-07                         | 1   | 1   | 1  |    |    |           | E65                                    |
| 48   | 48   |                  | 1910531-00  | DEC 74S181 ALU-4BIT           | 2   | 2   | 2  |    |    |           | E66,E74                                |
| 49   | 49   |                  | 1910957-00  | 74S175 FF-D QUAD COMMON CLO   | 4   | 4   | 4  |    |    |           | E67,E75,E89,E99                        |
| 50   | 50   |                  | 1910548-00  | 74S157 MUX 1 OF 2 (QUAD)      | 3   | 3   | 3  |    |    |           | E68,E83,E86                            |
| 51   | 51   |                  | 1912837-00  | LS123 ONE SHOT-DUAL,RETRIG    | 3   | 3   | 3  |    |    |           | E69,E129,E132                          |
| 52   | 52   |                  | 1912741-00  | 82S112 MEMORY READ/WRITE, 3   | 4   | 4   | 4  |    |    |           | E71-E73,E78                            |
| 53   | 53   |                  | 1912853-00  | LS175 FF-D QUAD               | 1   | 1   | 1  |    |    |           | E76                                    |
| 54   | 54   |                  | 1905580-00  | DEC 7450 A-0-1 XPNDRL GATE-D  | 2   | 2   | 2  |    |    |           | E81,E117                               |
| 55   | 55   | C-IA-5400778-0-0 | 5408778-00  | PLUG PRIORITY                 | 1   | 1   | 1  |    |    |           | E77                                    |
| 56   | 56   |                  | 1910544-00  | 74S74 FF-D DUAL,EDGE TRIGG    | 4   | 4   | 4  |    |    |           | E82,E105,E109,E121                     |
| 57   | 57   |                  | 1912661-00  | 74S189 MEMORY READ/WRITE      | 2   | 2   | 2  |    |    |           | E84,E90                                |
| 58   | 58   |                  | 1910537-00  | 74S11 AND GATE-TRIPLE 3INP    | 2   | 2   | 2  |    |    |           | E95,E119                               |
| 59   | 59   |                  | 1912845-00  | LS153 MUX 1 OF 4 (DUAL)       | 1   | 1   | 1  |    |    |           | E98                                    |
| 60   | 60   |                  | 1909705-00  | DEC 8881 NAND GATE-QUAD 2IN C | 2   | 2   | 2  |    |    |           | E100,E114                              |
| 61   | 61   |                  | 1912842-00  | LS138 DECODER-THREE INPUT,    | 1   | 1   | 1  |    |    |           | E104                                   |
| 62   | 62   |                  | 1912805-00  | LS08 AND GATE-QUAD 2IN,PO     | 1   | 1   | 1  |    |    |           | E103                                   |
| 63   | 63   |                  | 1910536-00  | 74S10 NAND GATE-TRIPLE 3IN    | 1   | 1   | 1  |    |    |           | E107                                   |
| 64   | 64   |                  | 1911712-00  | 74S51 AND-OR GATE-INVERT D    | 2   | 2   | 2  |    |    |           | E110,E118                              |
| 65   | 65   |                  | 1910542-00  | 74S64 A-0-1 GATE 4-2-3-2      | 1   | 1   | 1  |    |    |           | E111                                   |
| 66   | 66   |                  | 1914438-00  | DC 013 LINBUS INTERRUPT-BIP   | 2   | 2   | 2  |    |    |           | E112,E124                              |
| 67   | 67   |                  | 1912824-00  | LS74 FF-D DUAL,EDGE TRIGG     | 2   | 2   | 2  |    |    |           | E116,E120                              |
| 68   | 68   |                  | 1910545-00  | 74S112 FF-JK DUAL,EDGE TRIG   | 3   | 3   | 3  |    |    |           | E122,E134,E135                         |
| 69   | 69   |                  | 1912395-00  | DM 8136 COMPARATOR-6BIT UNIF  | 2   | 2   | 2  |    |    |           | E125,E126                              |
| 70   | 70   |                  | 1811660-05  | OSCILLATOR, XTAL 33.330 MHZ   | 1   | 1   | 1  |    |    |           | E123                                   |
| 71   | 71   |                  | 1912834-00  | LS112 FF-JK DUAL,EDGE TRIG    | 1   | 1   | 1  |    |    |           | E130                                   |
| 72   | 72   |                  | 1909004-00  | DEC 7402 NOR GATE-QUAD 2IN    | 1   | 1   | 1  |    |    |           | E131                                   |
| 73   | 73   |                  | 1912389-00  | 74S08 AND GATE-QUAD 2IN,PO    | 1   | 1   | 1  |    |    |           | E133                                   |
| 74   | 74   |                  | 1211164-C4  | SW,DIP 1P 1A 8POS             | 1   | 1   | 1  |    |    |           | E28                                    |
| 75   | 75   |                  | 1211164-C6  | SW,DIP 1P 1A 10POS            | 1   | 1   | 1  |    |    |           | E127                                   |

| B | I | G | I | T | A | L | TITLE                 | SECTION A OF A | SIZE | CODE | DOCUMENT NUMBER | REV |
|---|---|---|---|---|---|---|-----------------------|----------------|------|------|-----------------|-----|
|   |   |   |   |   |   |   | DMP11 MICROCONTROLLER |                |      |      |                 |     |
|   |   |   |   |   |   |   |                       |                | K    | PL   | M8207-0-0       | K   |

| LINE | ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION |     |         | REFERENCE DESIGNATOR |
|------|------|-----------------|-------------|----------------------------------|-------------------|-----|---------|----------------------|
|      |      |                 |             |                                  | 00                | YA  | RA      |                      |
| 76   | 76   |                 | 1300005-03  | R NETWORK 13-10K 5.0 X 14P1N     | 1                 | 1   | 1       | E128                 |
| 77   | 77   |                 | 9000024-01  | EYELET,ROLL FLANGE .12.00X .192  | 10                | 10  | 10      |                      |
| 78   | 78   |                 | 9007112-00  | TERM QUICK 1POS ADAPTER          | 2                 | 2   | 2       | TP1,TP2              |
| 79   | 79   |                 | 9009000-00  | EYELET,ROLL FLANGE .1210DX .156  | 2                 | 2   | 2       |                      |
| 80   | 80   |                 | 9009185-00  | JUMPER, WIRE, INSULATED, BLACK B | 1                 | 1   | 1       | W2                   |
| 81   | 81   |                 | 23002F4-00  | F4-01                            | -                 | 1   | -       | E2                   |
| 82   | 82   |                 | 23028F4-00  | F4-01                            | -                 | 1   | -       | E3                   |
| 83   | 83   |                 | 23029F4-00  | F4-01                            | -                 | 1   | -       | E4                   |
| 84   | 84   |                 | 23030F4-00  | F4-01                            | -                 | 1   | -       | E5                   |
| 85   | 85   |                 | 23006F4-00  | F4-01                            | -                 | 1   | -       | E14                  |
| 86   | 86   | C-M0-74219'-0-0 | 7421915-00  | CKIP MODULE VARIATION I.D. "YA"  | -                 | 1   | -       |                      |
| 87   | 87   | NOTE 2          | 1211164-00  | SW,DIP 1P 1A 4POS                | 1                 | 1   | 1       | E85                  |
| 88   | 88   |                 | 7421915-01  | CLIP MODULE VARIATION I.D. "RA"  | -                 | -   | 1       |                      |
| 89   | 89   |                 | 23127F3-00  | F3-03                            | -                 | -   | 1       | E1                   |
| 90   | 90   |                 | 23100F3-00  | F3-03                            | -                 | -   | 1       | E2                   |
| 91   | 91   |                 | 23101F3-00  | F3-03                            | -                 | -   | 1       | E3                   |
| 92   | 92   |                 | 23128F3-00  | F3-03                            | -                 | -   | 1       | E4                   |
| 93   | 93   |                 | 23103F3-00  | F3-03                            | -                 | -   | 1       | E5                   |
| 94   | 94   |                 | 23104F3-00  | F3-03                            | -                 | -   | 1       | E14                  |
| 95   | 95   |                 | 9105740-55  | WIRE(WRAP)30AWG                  | UL1423            | A/R | A/R A/R |                      |

96 NOTE: NOTE 1. 1004813-00 MAY BE USED INSTEAD OF 1012084-01.

97 NOTE: NOTE 2. 1211164-01 MAY BE USED INSTEAD OF 1211164-00

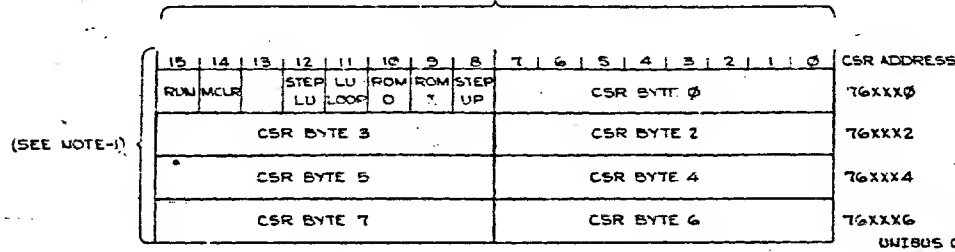
|   |   |   |   |   |   |   |   |   |                       |                |      |      |                 |     |
|---|---|---|---|---|---|---|---|---|-----------------------|----------------|------|------|-----------------|-----|
| D | I | D | I | G | I | T | A | L | TITLE                 | SECTION A OF A | SIZE | CODE | DOCUMENT NUMBER | REV |
|   |   |   |   |   |   |   |   |   | DMP11 MICROCONTROLLER |                | K    | PL   | H8207-0-0       | K   |



[illegible]

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## UNIBUS CONTROL &amp; STATUS REGISTERS



UNIBUS CSR'S

ROM I/O

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| GRAM ADDRESS (M8206 ONLY)                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ROM 0=0 ROM 1=0 CSR 7+6(W/R) ROM 0=1 ROM 1=0 CROM DATA          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ROM 0=1 ROM 1=1 MAINTENANCE INSTRUCTION(W/R) M8207(R) M8206(WR) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

AIP NPR CONTROL

AIP MISC

PROGRAM COUNTER

MEMORY ADDRESS REGISTER

GRAM WRITE (M8206 ONLY) (ROM 0=1 ROM 1=0)

|                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| (M8206 ONLY) GRAM ADDRESS (ROM 0=1) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| → GRAM DATA ⊕ GRAM WRITE →          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

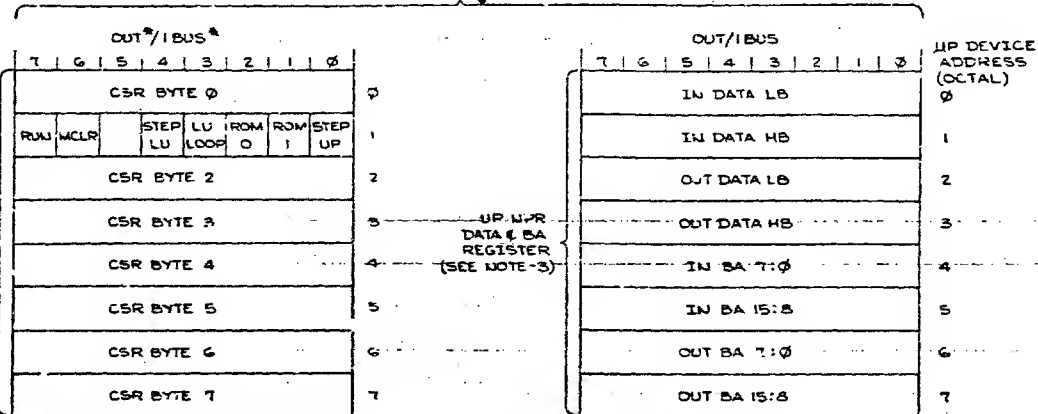
## NOTES

- UNIBUS CSR'S ARE IN THE MULTI-PORT RAM. BYTE 1 HAS A HARDWARE STATUS REGISTER THAT IS ADDRESSABLE ONLY FROM THE UNIBUS. IF THE UP ADDRESSES BYTE 1, IT WILL ONLY WRITE INTO THE RAM. ALL THE OTHER CSR BYTES ARE DEFINED BY THE MICROCODE EXCEPT IN MAINTENANCE MODE.
- IBUS 12-15 REFLECT THE PROGRAM COUNTER FOR THE INSTRUCTION BEING EXECUTED AND THE MEMORY ADDRESS REGISTER FOR THE PREVIOUS INSTRUCTION.
- OUT\*13 IS THE PCR WHICH IS A SHADOW REGISTER. THE CONTENTS OF THE PCR WILL BE TRANSFERRED TO THE PC ONLY ON A BRANCH (CHANGE FIELD).
- NPR DATA AND BA REGISTER ARE RAM, HOWEVER ADDRESS ASSIGNMENTS ARE HARDWIRED AND CANNOT BE REDEFINED.
- OPTIONAL: THE BIT ASSIGNMENTS ARE ONLY VALID WITH THE M8207 LINE UNIT.

UNDEFINED

YC EXTENDED UNIBUS ADDRESS

## UP &amp; LU CONTROL &amp; STATUS REGISTERS



|                |            |         |              |           |          |               |        |
|----------------|------------|---------|--------------|-----------|----------|---------------|--------|
| BYTE XFER (EO) | MAR 10     | MAR 8   | OUT NPR (E1) | IN BA 17  | IN BA 16 | NOT LAST XFER | NPR RQ |
| EVS RQ         | VECTOR R/W | PGM CLK | OUT BA 17    | OUT BA 16 | AL LD    | NON EX MEM    |        |
| PC 7 → 0       |            |         |              |           |          |               |        |
| PC 13 → 8      |            |         |              |           |          |               |        |
| MAR 7 → 0      |            |         |              |           |          |               |        |
| MAR 12 → 8     |            |         |              |           |          |               |        |

LU DEVICE REGISTERS SEE NOTE-4)

|                                      |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
|--------------------------------------|----------|-------|------|-------|-------|-------|-----|-----|----|----|----|----|----|----|----|
| TRANSMIT DATA SILO                   |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| RECEIVER DATA SILO                   |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| DC                                   | CACT     | SW    | ORC  | TC    | TA    | OR    | TC  | TA  | OR | TC | TA | OR | TC | TA | OR |
| IC                                   | RACT     | LULP  | TRDY | OVRR  | RAB   | ES    | EX  | SCC |    |    |    |    |    |    |    |
| POLL                                 | DTR      | SELR  | HOX  | MAINT | MAINT | FALSE |     |     |    |    |    |    |    |    |    |
| RING                                 | DTR      | RTS   | HOX  | MAINT | MAINT | FALSE |     |     |    |    |    |    |    |    |    |
| READY                                | THA      | DIS   | RDAX | WAX   | ENAX  | AX2   | AX1 |     |    |    |    |    |    |    |    |
| SW PACK/EXTENDED LOW BYTE            |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| SW PACK/EXTENDED HIGH BYTE           |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| CRC                                  |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| SIGQ/SIGR SA IDCCRICRITEST/HECS DEFP |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| RECEIVER DATA USYRT                  |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| RERR/SIS ASSEMBLER ROR/RAB/RSOM/RSOW |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| TRANSMIT DATA USYRT                  |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| TERR                                 | NOT USED | TXGA  | TXAS | TEOM  | TSOM  |       |     |     |    |    |    |    |    |    |    |
| BCP SYNC CHARACTER/ROP SEC ADDRESS   |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| APA                                  | DDMP     | STRIP | SECA | IDLE  | CRC   | TYPE  |     |     |    |    |    |    |    |    |    |
| 4ZZ                                  | XYZ      | EUCLA | VBS  | INT   |       |       |     |     |    |    |    |    |    |    |    |
| TX CHARACTER LGTH                    |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |
| EXCC REC CHARACTER LGTH              |          |       |      |       |       |       |     |     |    |    |    |    |    |    |    |

AX0-15 (READ ONLY)

AX0-16 (READ ONLY)

AX1-15

AX1-16

AX2-15

AX2-16 (READ ONLY)

AX3-15

AX3-16

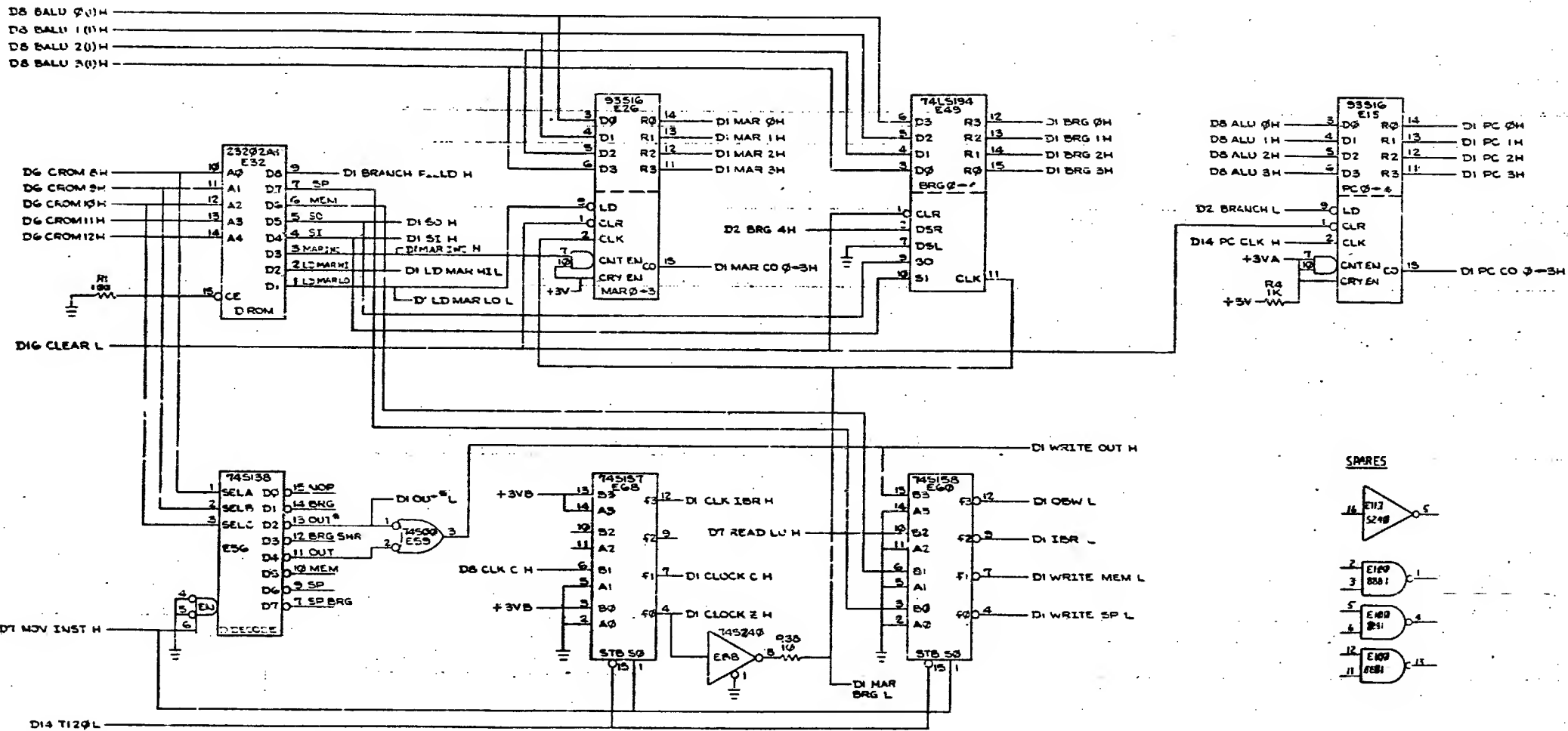
|                  |     |                 |      |
|------------------|-----|-----------------|------|
| DRN              |     | FIRST USED ON   |      |
| CHKD             | ... | DIGITAL         |      |
| ENG              | ... | TITLE           |      |
| PROJ ENG         | ... | CMP11           |      |
| PROD             | ... | MICROCONTROLLER |      |
| NEXT HIGHER ASSY |     | SIZE            | CODE |
| SCALE            |     | NUMBER          | REV  |
| SHEET 2 OF 2     |     | DIST            |      |

M8207-0-1 L

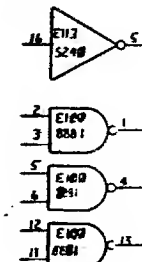
B

A

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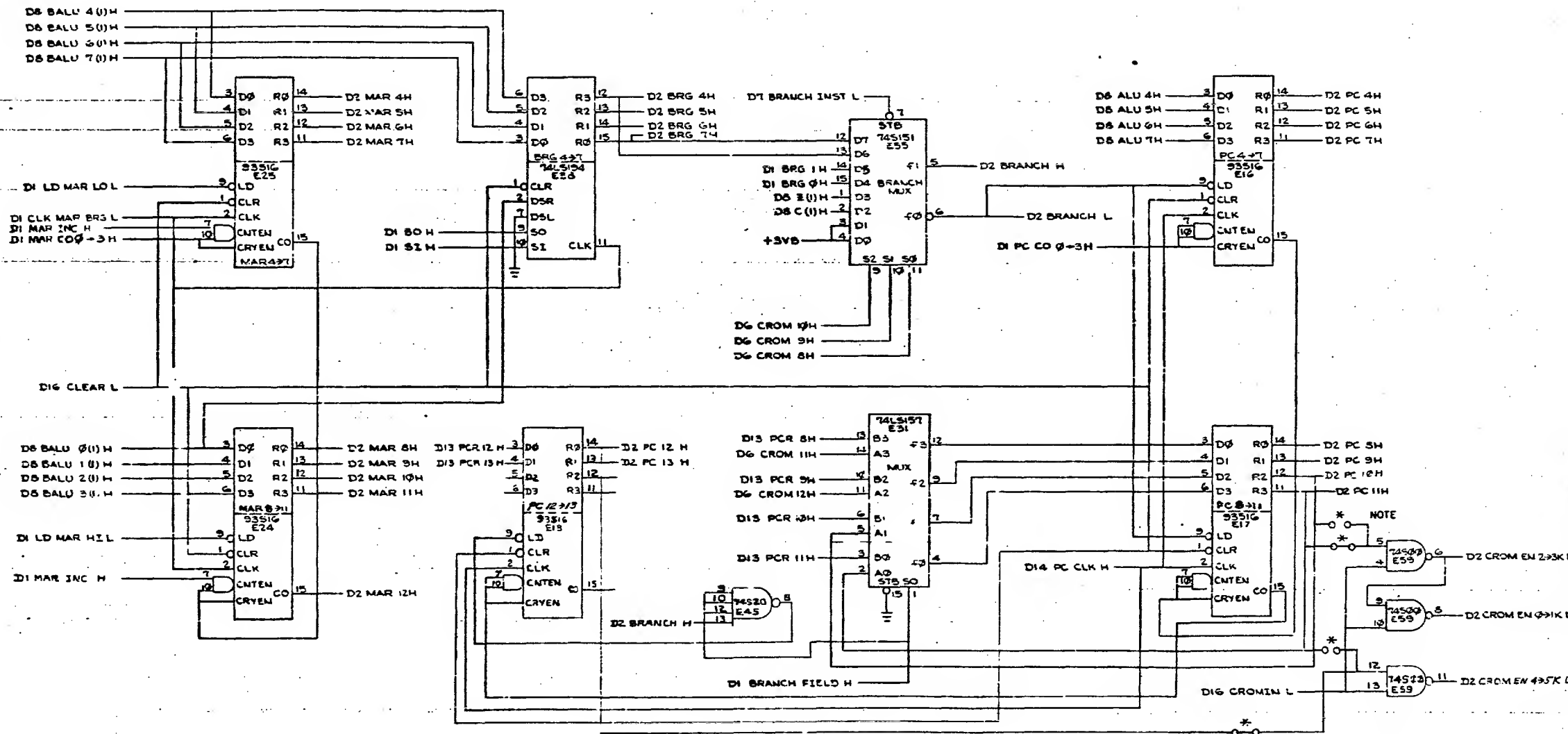
# SPARES



|  |      |               |               |
|--|------|---------------|---------------|
| BRG Q=3, MAR Q=7, PC Q=3, DROM REF CLK |      | FIRST USED ON |               |
| DATE                                   | REV. | TITLE         | MPPII digital |
| ENG                                    | REV. | PROJ. ENG.    | MPPII         |
| PROD. ENG.                             | REV. | PROJ. PROD.   | MPPII         |
| NEXT IN JER ASSY.                      |      | SIZE CODE     | NUMBER        |
| SCALE                                  | REV. | D 63          | M8207-0-1     |
| SHEET                                  | CF   | DIST.         | REV.          |

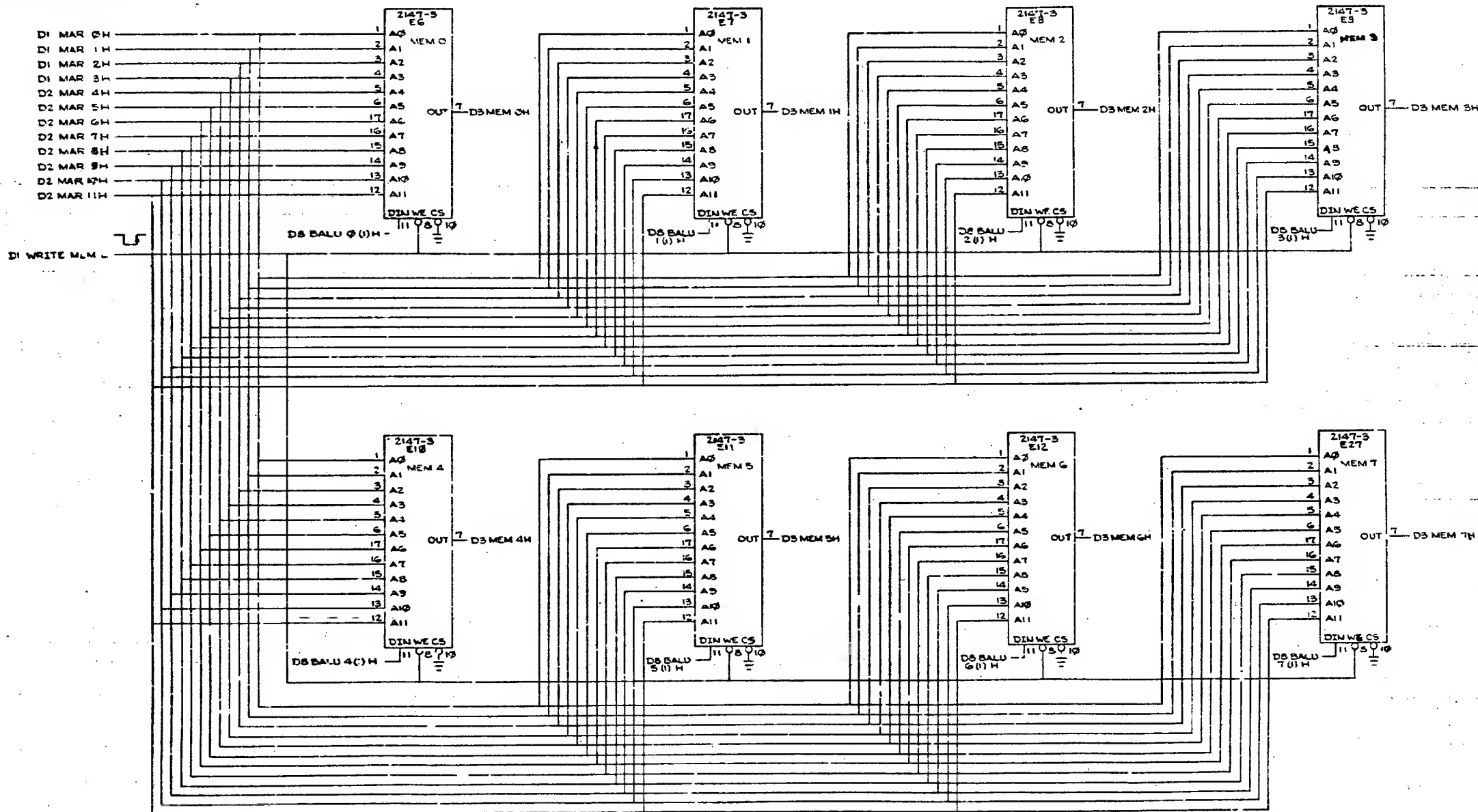
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\*NOTE: OPTIONAL WIRING.  
CIRCLES SHOWN CONNECTED ARE FOR M8207-YA ONLY.  
CIRCLES NOT CONNECTED WOULD BE FOR M8207-RA ONLY.



|                   |  |          |  |
|-------------------|--|----------|--|
| DIGITAL           |  | REV. 1   |  |
| TITLE             |  | NUMBER   |  |
| DMP11             |  | M8207-01 |  |
| MICROCONTROLLER   |  | (02)     |  |
| NEXT HIGHER ASSY. |  | REV. L   |  |
| SCALE             |  | D'ST.    |  |
| SHEET 4 OF 21     |  | REV. L   |  |

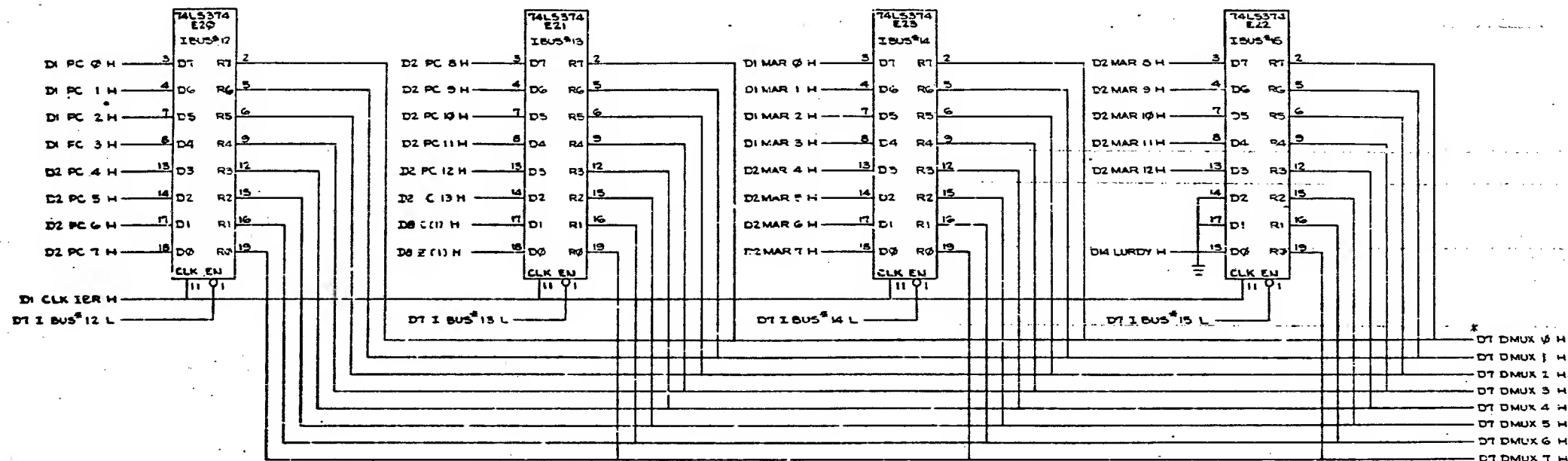
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|                       |  |                              |  |
|-----------------------|--|------------------------------|--|
| DRAWN BY: [ ]         |  | FIRST USED ON: [ ]           |  |
| CHK'D: [ ]            |  | TITLE: DMP11 MICROCONTROLLER |  |
| ENG: [ ]              |  | NUMBER: 031                  |  |
| PROJ. ENG: [ ]        |  | REV: L                       |  |
| PROD: [ ]             |  | D CS M8227-2-1               |  |
| NEXT HIGHER ASSY: [ ] |  | SHEET 5 OF 21                |  |
| SCALE: [ ]            |  | DIST: [ ]                    |  |

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7 1-0-0220W 2

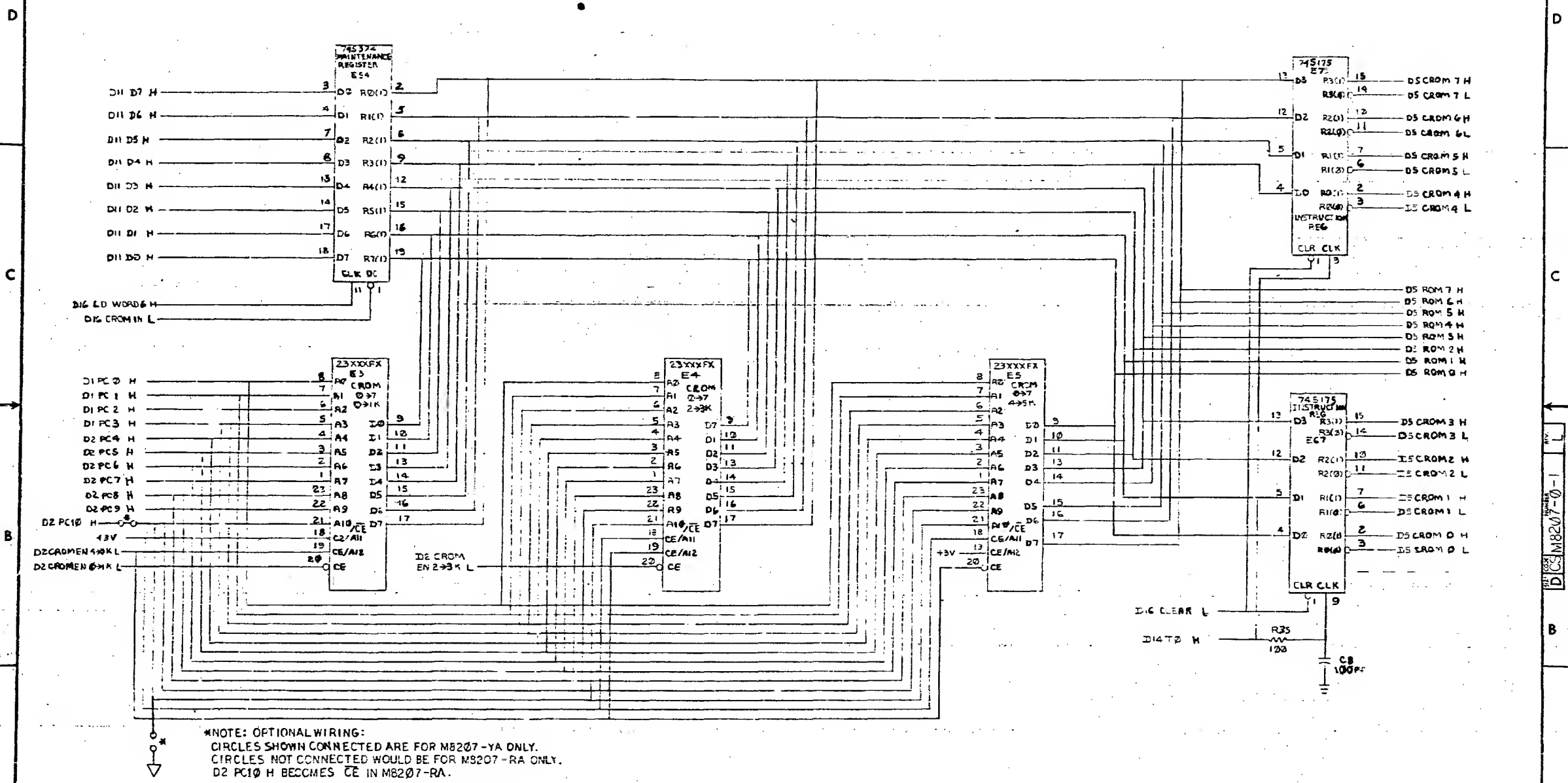


\* DMUX SIGNALS ARE TRI STATE

|                      |       |                 |           |
|----------------------|-------|-----------------|-----------|
| IBUS* REGISTER 12-15 |       | FIRST USED ON   |           |
| DATE                 | REV.  | TITLE           |           |
| ENG. DATE            | REV.  | DMP11           |           |
| PROJ. ENG.           | REV.  | MICROCONTROLLER |           |
| PROD. DATE           | REV.  | (C4)            |           |
| NEXT HIGHER ASSY.    |       | SIZE CODE       | NUMBER    |
| B-00-000000-1        |       | D CS            | M8207-0-1 |
| SCALE                | DIST  | REV.            | L         |
| SHEET 6              | OF 21 |                 |           |

D CS M8207-0-1

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| REVISIONS |           |      | TITLE        |  | SIZE CODE     |  | NUMBER       |  | REV. |  |
|-----------|-----------|------|--------------|--|---------------|--|--------------|--|------|--|
| CHK       | CHANGE NO | REV. | DCS M8207-01 |  | DCS M8207-01  |  | DCS M8207-01 |  | L    |  |
|           |           |      |              |  |               |  |              |  |      |  |
|           |           |      | SCALE        |  | SHEET 7 OF 21 |  | DIST.        |  |      |  |
|           |           |      |              |  |               |  |              |  |      |  |



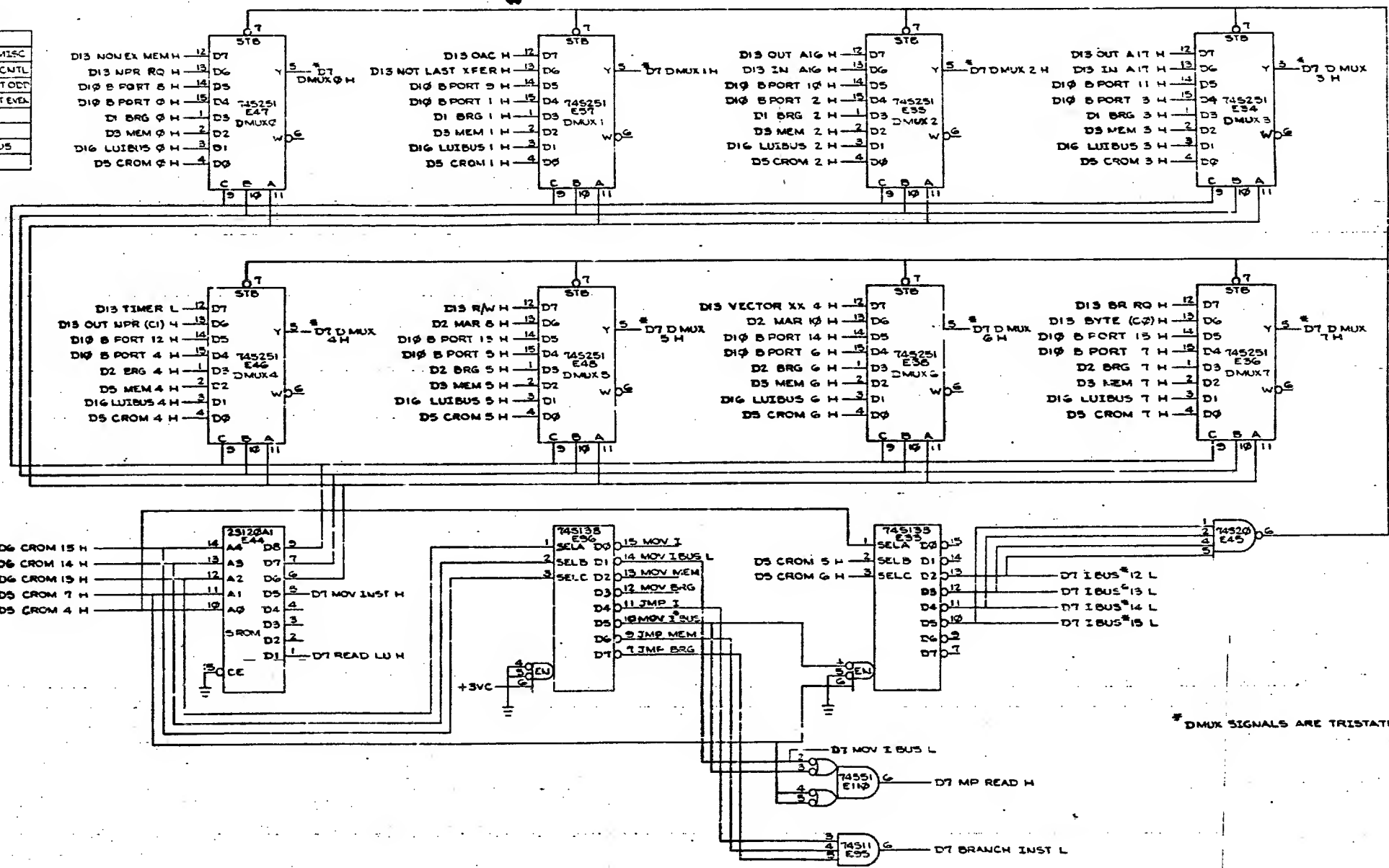
(CROM + IR + MAINTENANCE 3-15)

| REVISIONS |            |      |  |  |  |  |  |  |  |  |  |  | TITLE           |  | SIZE CODE     |  | NUMBER    |  | REV. |
|-----------|------------|------|--|--|--|--|--|--|--|--|--|--|-----------------|--|---------------|--|-----------|--|------|
| CHK       | CHANGE NO. | REV. |  |  |  |  |  |  |  |  |  |  | DWDH            |  | DCS           |  | M8207-0-1 |  | L    |
|           |            |      |  |  |  |  |  |  |  |  |  |  | MICROCONTROLLER |  |               |  |           |  |      |
|           |            |      |  |  |  |  |  |  |  |  |  |  | SCALE           |  | SHEET 0 OF 21 |  | DIST.     |  |      |
|           |            |      |  |  |  |  |  |  |  |  |  |  |                 |  | 2             |  | MK        |  | 1    |



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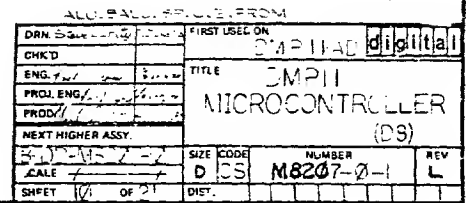
| 74525 |   |   |            |
|-------|---|---|------------|
| H     | H | H | UF MISC    |
| H     | H | L | NPR CNTL   |
| H     | L | H | SPORT OUT  |
| H     | L | L | SPORT EVEL |
| L     | H | H | BRG        |
| L     | H | L | MEM        |
| L     | L | H | LUIBUS     |
| L     | L | L | I          |



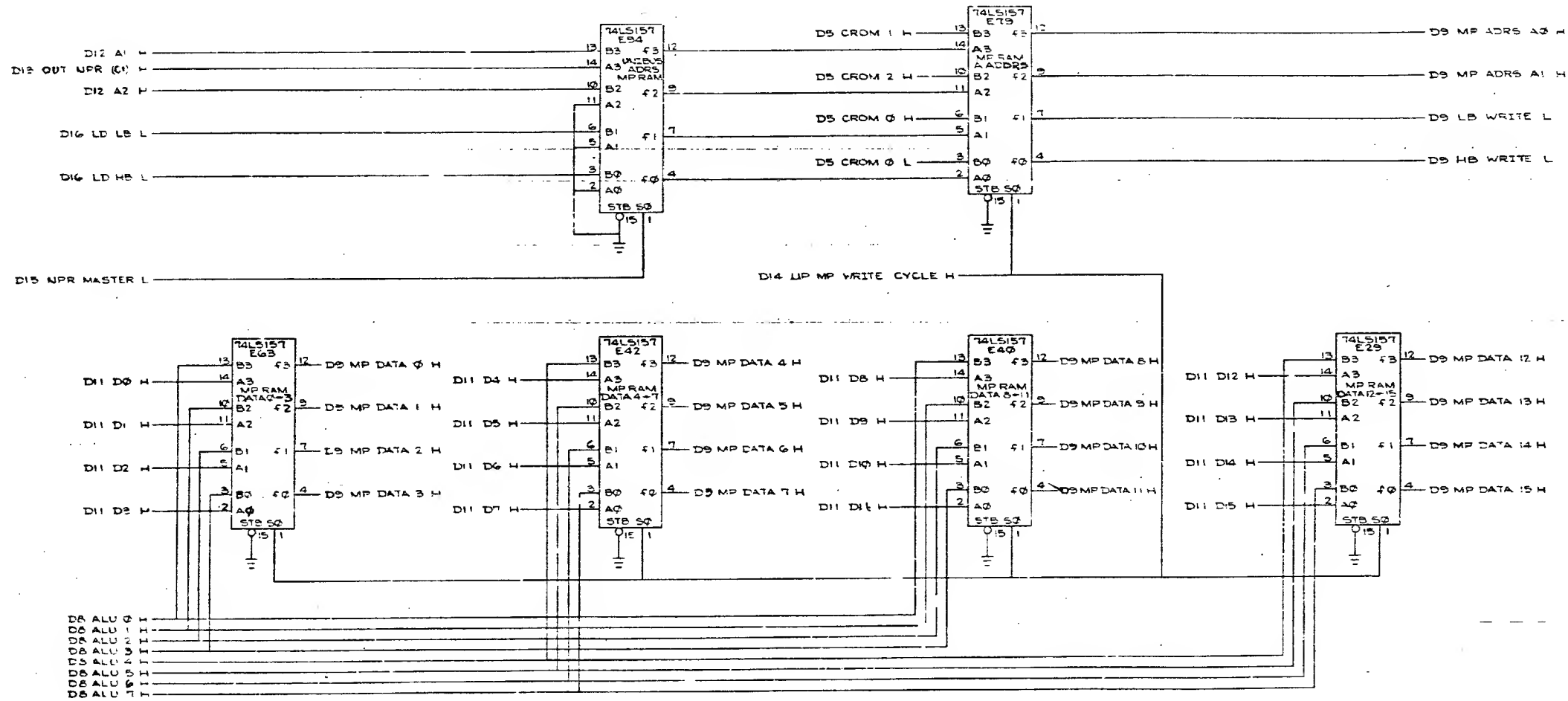
\* DMUX SIGNALS ARE TRISTATE

|                     |                                   |
|---------------------|-----------------------------------|
| DMUX, SRAM, SPECODE |                                   |
| DMUX: 74525         | FIRST USED ON: DMP11-AD digital   |
| CHK'D: [ ]          | TITLE: DMP11 MICROCONTROLLER (D7) |
| ENG. F.I. [ ]       | SIZE: CODE                        |
| PROL. ENG. F.I. [ ] | NUMBER: M8207-0-1                 |
| PROD. F.I. [ ]      | REV. L                            |
| NEXT HIGHER ASSY:   |                                   |
| B-D-D-V: 2-2-2      |                                   |
| SCALE: [ ]          |                                   |
| SHEET: 1 OF 2       |                                   |

|        |           |
|--------|-----------|
| REV.   | 1         |
| NUMBER | M8207-0-1 |



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|                     |             |                 |      |
|---------------------|-------------|-----------------|------|
| NIP RAM ADDR + DATA |             | FIRST USED ON   |      |
| ORN 524             | DATE 1/1/77 | DIGITAL         |      |
| CHK'D               |             | TITLE           |      |
| ENG                 |             | DMP11-AD        |      |
| PROJ ENG            |             | MICROCONTROLLER |      |
| PROD                |             | (D9)            |      |
| NEXT HIGHER ASSY    |             |                 |      |
| B-D                 |             | SIZE            | CODE |
| SCALE               |             | D               | CS   |
| SHEET               | OF 2        | NUMBER          | REV. |
|                     |             | M8207-0-1       | L    |

|     |          |      |      |   |
|-----|----------|------|------|---|
| 7   | 1-0-2023 | SC   | 0    | 2 |
| 230 | 11/11/23 | 2000 | 2200 |   |



525112  
MP RAM ACS

|    |    |    |
|----|----|----|
| 6  | 5  | 4  |
| 18 | 18 | 20 |
| 0  | 0  | 0  |
| 0  | 0  | 1  |
| 0  | 1  | 0  |
| 0  | 1  | 1  |
| 1  | 0  | 0  |
| 1  | 0  | 1  |
| 1  | 1  | 0  |
| 1  | 1  | 1  |

WRITE SPORT  
READ SPORT

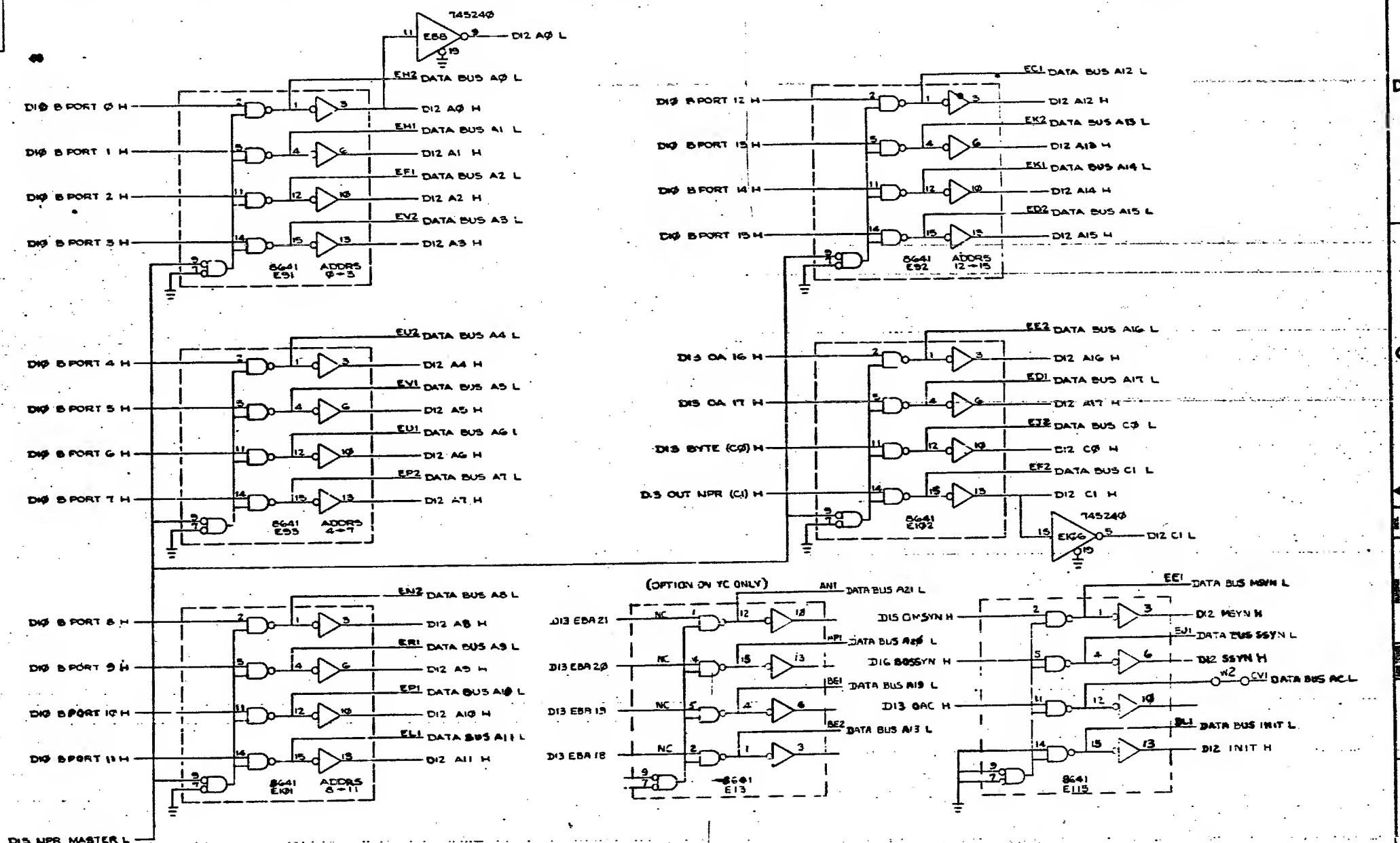
2.2.4.6 WORD SELECT

- OUT/I BUS
- OUT\*/I BUS\*

|                         |        |                         |          |
|-------------------------|--------|-------------------------|----------|
| MULTI-PORT RAM          |        |                         |          |
| DATE: 1987-05-15        | REV: 1 | FIRST USED ON: DMP II-C | digitai  |
| CHK D                   |        | TITLE: DMP II           |          |
| ENG. BY: [signature]    |        | MICROCONTROLLER         |          |
| PROG. ENG.: [signature] |        | (DIO)                   |          |
| MOD.: [signature]       |        |                         |          |
| NEXT HIGHER ASSY:       |        |                         |          |
| R-DD-15207-0            |        | SIZE: D                 | CODE: CS |
| SCALE: 12 OF 21         |        | NUMBER: M8207-0-1       | REV: L   |
| SHEET                   |        | DIS:                    |          |



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| UNIBUS ADDRESS INTERFACE |      |      |      |
|--------------------------|------|------|------|
| DATE                     | REV. | DATE | REV. |
| ENG.                     | CHK. | DATE | REV. |
| PRG. ENG.                | CHK. | DATE | REV. |
| PROD. ENG.               | CHK. | DATE | REV. |
| NEXT HIGHER ASSY.        |      | DATE | REV. |
| SCALE                    |      | DATE | REV. |
| SHEET                    |      | DATE | REV. |
| 14 OF 21                 |      | DATE | REV. |
| MK                       |      | DATE | REV. |
| 1                        |      | DATE | REV. |

UNIBUS ADDRESS INTERFACE

DATE: 1-0-77 REV: 2

TITLE: DMP11 MICROCONTROLLER (D12)

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

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DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

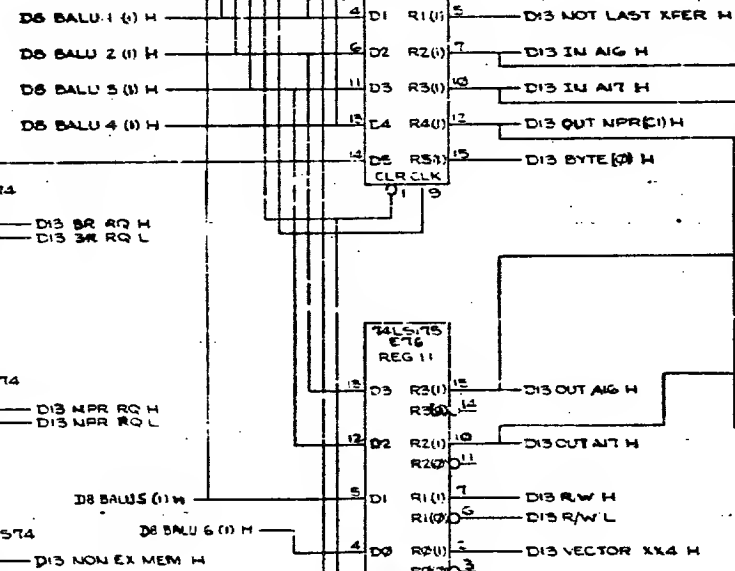
DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

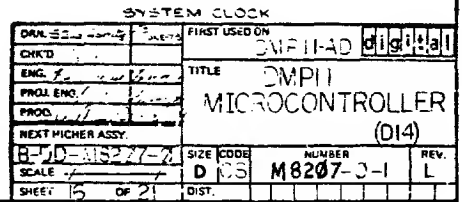
DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

DATE: 1-0-77 REV: 2

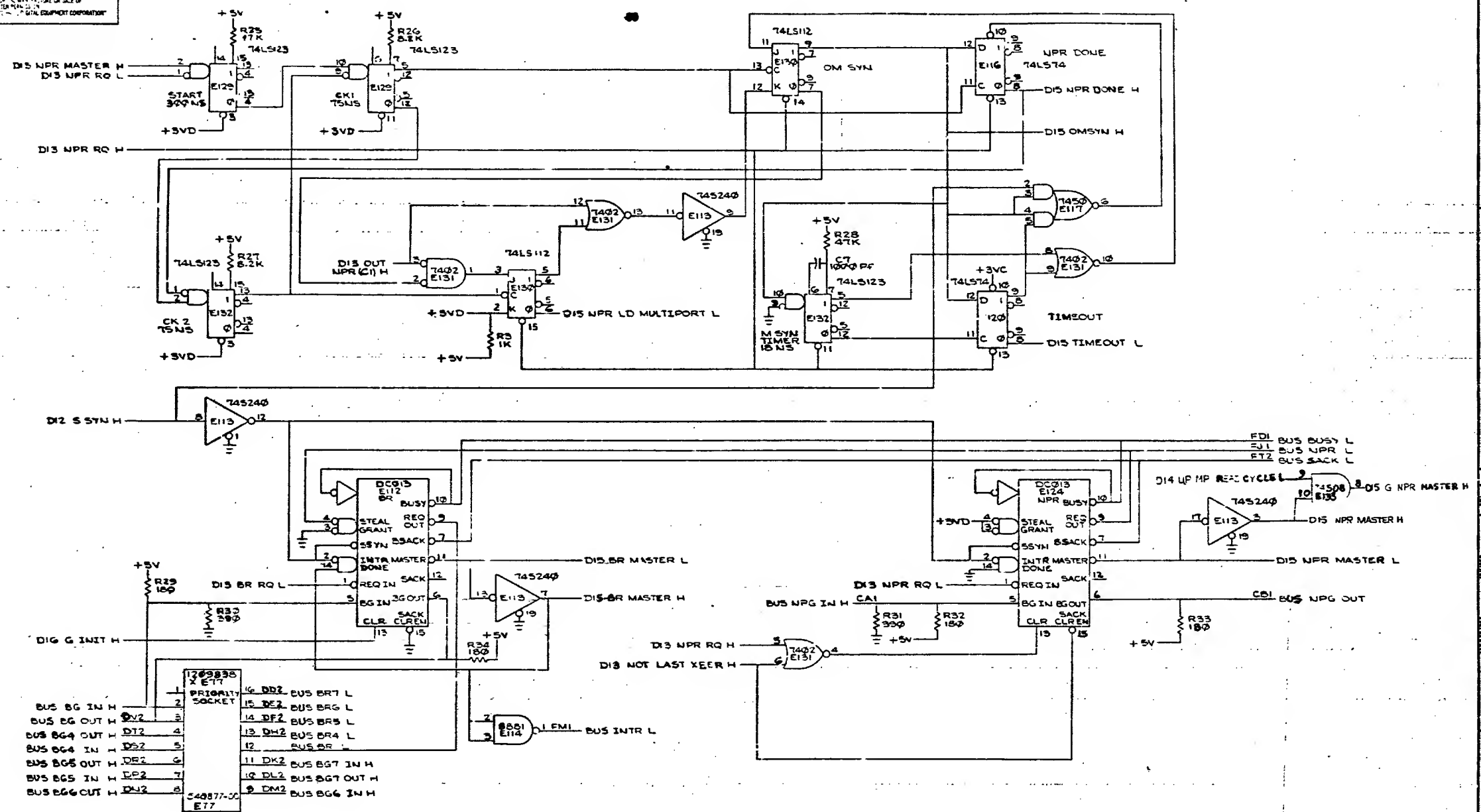


|                             |                                |                         |
|-----------------------------|--------------------------------|-------------------------|
| DATE <u>3-1-79</u>          | FIRST USED ON <u>DMP 11-AD</u> | <u>digital</u>          |
| CIRCUIT <u>ENG 11-11-79</u> | TITLE <u>DMP11</u>             |                         |
| PROJ. ENG. <u>11-11-79</u>  | <u>MICROCONTROLLER</u>         |                         |
| PROG. <u>11-11-79</u>       | <u>(D13)</u>                   |                         |
| NEXT HIGHER ASSY.           |                                |                         |
| <u>B-DD-RS20-2</u>          |                                |                         |
| SCA'S                       | SIZE CODE <u>D CS</u>          | NUMBER <u>M8207-0-1</u> |
| SHEET <u>15</u> OF <u>2</u> | DIST.                          | REV. <u>L</u>           |

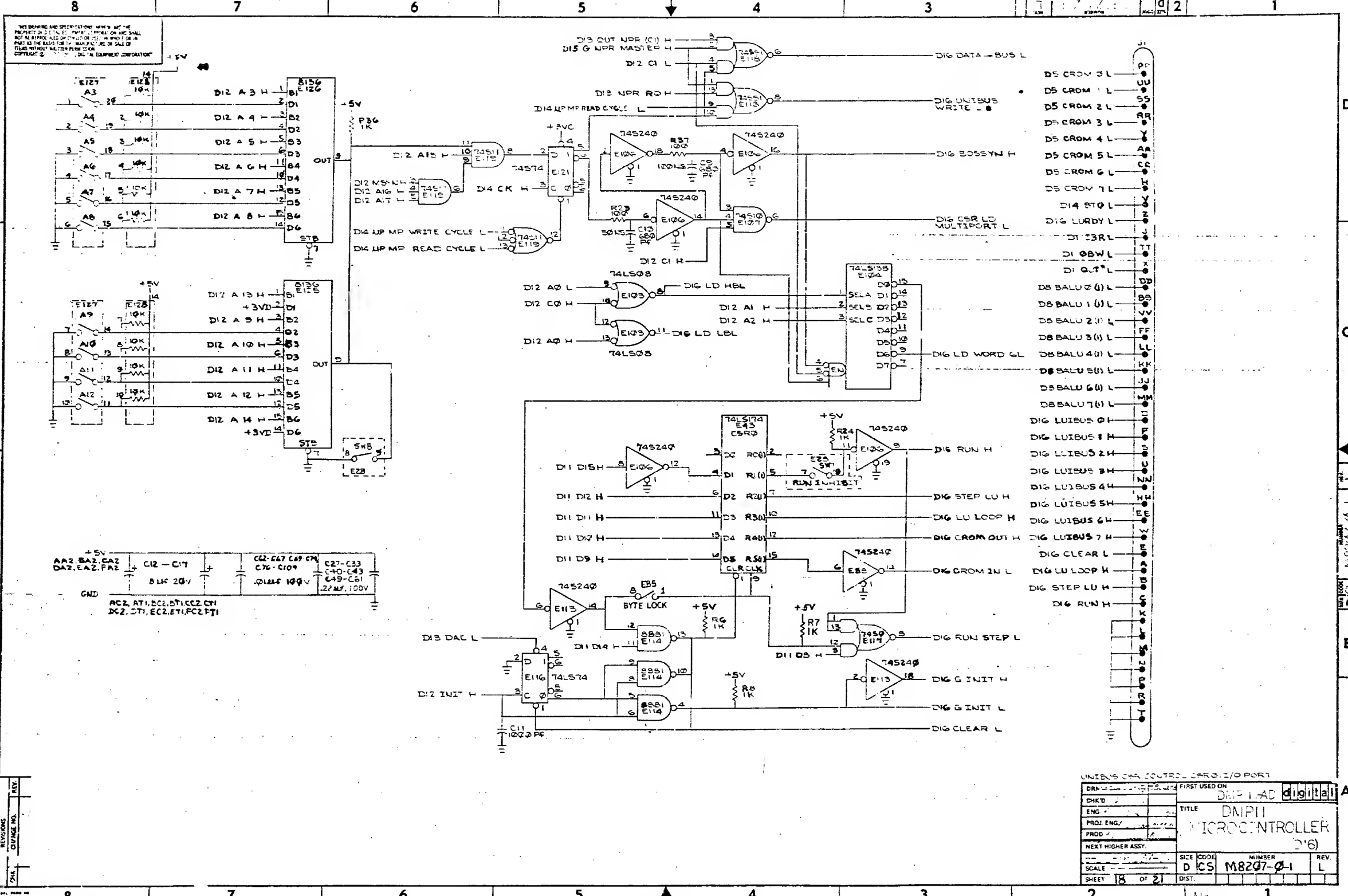




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| INTERRUPT + NPR CONTROL |       | FIRST USED ON   |           |
|-------------------------|-------|-----------------|-----------|
| CHK'D                   | 4     | DMP114C digital |           |
| ENL                     | 11    | TITLE DMP11     |           |
| PROL ENG                | 11    | MICROCONTROLLER |           |
| PROG                    | 11    | (DIS)           |           |
| NEXT HIGHER ASSY        |       | SIZE CODE       | NUMBER    |
| BUD-22-2                |       | D CS            | M8207-3-1 |
| SCALE                   | 1     | REV.            | L         |
| SHEET 7                 | OF 21 | DIST.           |           |



|                                   |  |                 |         |
|-----------------------------------|--|-----------------|---------|
| UNIBUS DATA CONTROL CARD I/O PORT |  | FIRST USED ON   |         |
| DRN                               |  | DMP LAD         | digital |
| CHK'D                             |  | TITLE           |         |
| ENG                               |  | DMP11           |         |
| PROJ. ENG.                        |  | MICROCONTROLLER |         |
| PROD.                             |  | (D'6)           |         |
| NEXT HIGHER ASSY.                 |  | SIZE            | CODE    |
|                                   |  | D               | CS      |
| SCALE                             |  | NUMBER          | REV.    |
| SHEET 18 OF 21                    |  | M8207-0-1       | L       |

1

[illegible]

| REVISIONS |           |     |  |  |  |  |  |  |  |  | TITLE                   |       | SIZE           | CODE | NUMBER    | REV. |
|-----------|-----------|-----|--|--|--|--|--|--|--|--|-------------------------|-------|----------------|------|-----------|------|
| CHK       | CHANGE NO | REV |  |  |  |  |  |  |  |  | DMPH<br>MICROCONTROLLER |       | D              | CS   | M8207-0-1 | L    |
|           |           |     |  |  |  |  |  |  |  |  |                         | SCALE | SHEET 19 OF 21 | DIST |           |      |



|                  |            |       |      |      |           |      |
|------------------|------------|-------|------|------|-----------|------|
| DRN              | ENG        | CHKD  | SIZE | CODC | NUMBER    | REV. |
|                  |            |       |      | DSI  | M8207-0-1 | L    |
| ENG              | PROJ. ENG. | PROD. | DATE | DIST |           |      |
|                  |            |       |      |      |           |      |
| NEXT HIGHER ASSY |            |       |      |      |           |      |
| SCA              |            |       |      |      |           |      |
| SHEET            | 2          | OF 2  |      |      |           |      |

COMPONENT SIDE VIEW

00

28-4

MOUN  
D23  
D24  
ON  
TOP  
OF  
R91  
35. POL  
08-10

3.41  
3.61MM  
E.B.S.

08-  
02-

08-7

07-  
07-2

08-1

2

\_\_\_\_\_

|    | CHK          | CHANGE NO. | REV   |
|----|--------------|------------|-------|
|    | ORIGINATED   | L          | M     |
| BK | MBZ03-MKADP  |            |       |
|    | MBZ03-IMP987 |            | M     |
|    | H. BARRON    |            | SINCE |
|    | F. BACKES    | N          | P     |
|    | MBZ03-MKP986 |            |       |
|    | H. BARRON    |            |       |
|    | F. BACKES    |            |       |
|    |              |            |       |

SPARE  
SEE NOTE 1

SEE NOTE 3

ETCH REV. F-P2

|                               |  |      |                     |  |              |    |
|-------------------------------|--|------|---------------------|--|--------------|----|
| SIGNATURES                    |  | DATE | digital             |  |              |    |
| DRN.                          |  |      |                     |  |              |    |
| CHK'D.                        |  |      |                     |  |              |    |
| MECH. ENG.                    |  |      | TITLE               |  |              |    |
| PROJ. ENG.                    |  |      | MULTIDROP LINE UNIT |  |              |    |
| PROD.                         |  |      | SIZE CODE           |  | NUMBER       | RE |
| SCALE 2 / 1                   |  |      | D                   |  | UA M8203-0-0 | !! |
| SHT. 1 OF 2                   |  |      |                     |  |              |    |
| NEXT HIGHER REV. B-DD-M8203-0 |  |      |                     |  |              |    |

MK 1 WO#301675

## REWORK INSTRUCTIONS

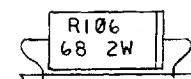
ECO #M8203-MK007 ETCH REV. F:

### COMPONENT DELETE:

07-1 REMOVE R106 (P/N 1302382-00, 200, 1W)

### COMPONENT ADD:

07-2 ADD R106 (P/N 1302308-00, 68, 2W). SEE DWG:



ECO #M8203-MK008, ETCH REV. F

### COMPONENT REMOVAL:

08-1 REMOVE E3 (P/N 1914477-00, LF357, OP. AMP.).

08-2 REMOVE R89 & R90 (P/N 1313598-00, 32.4K, 1%).

08-3 REMOVE R150 (P/N 1300479-00, 10.0K, .25W).

08-4 REMOVE C101 (P/N 1002425-00, 5MMF, 5%).

08-5 REMOVE R99 & R102 (P/N 1300365-00, 1.0K, .25W).

08-6 REMOVE R100 & R101 (P/N 1302124-00, 18.0, .25W).

### COMPONENT ADD:

08-7 ADD E3 (P/N 1910375-02, LM318, OP. AMP.).

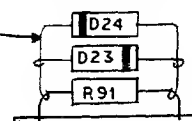
08-8 ADD R89 & R90 (P/N 1302886-00, 10K, 1%).

08-9 ADD W18 IN PLACE OF R150 (P/N 9009185-00, JUMPER, INSULATED).

08-10 ADD D23 & D24 ON TOP OF R91 (P/N 1100114-00 D664).

08-11 ADD R100 & R101 (P/N 1300250-00, 150.0, .25W).

08-10  
SIDE VIEW



| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |

| TITLE               |      | SIZE  | CODE | NUMBER    |   | REV.  |
|---------------------|------|-------|------|-----------|---|-------|
| MULTIDROP LINE UNIT |      | D     | UA   | M8203-0-0 |   | N     |
| SCALE               | NONE | SHEET | 2    | OF        | 2 | DIST. |
|                     |      |       |      |           |   |       |



AUTOMATED BY PRTLST.3L(36)

## P A R T S L I S T

SHEET A1 OF A3

| LINE ITEM | DOCUMENT NUMBER | PART NUMBER      | DESCRIPTION                   | QTY                            | PER VARIATION | REFERENCE DESIGNATOR           |
|-----------|-----------------|------------------|-------------------------------|--------------------------------|---------------|--------------------------------|
|           |                 |                  |                               | 00                             |               |                                |
| 1         | 1               | D-MD-5013292-0-0 | 5013292-00                    | DRILL AND ETCH BOARD           | 1             |                                |
| 2         | 2               |                  | 1013466-06                    | 100.0 MMF 50V 5% CER           | 2             | C1,C37                         |
| 3         | 3               |                  | 1013466-18                    | 330.0 MMF 50V 5% CER           | 1             | C2                             |
| 4         | 4               |                  | 1000042-00                    | 1000.0 MMF 100V 5%200PPM MICA  | 1             | C3                             |
| 5         | 5               |                  | 1013466-30                    | 560.0 MMF 50V 5% CER           | 1             | C4                             |
| 6         | 6               |                  | 1013466-05                    | 56.0 MMF 50V 5% CER            | 11            | C11-C21                        |
| 7         | 7               |                  | 1012784-00                    | .047 MFD 50V +80-20% CER       | 41            | C22,C26,C63-C100,C108          |
| 8         | 8               |                  | 1010274-00                    | .22 MFD 50V +80-20% Z5U CER    | 18            | C23-C25,C27-C29,C43,C46-C56    |
| 9         | 9               |                  | 1012084-01                    | 8 MFD 25V +75-10% AL EL        | 15            | C30,C31,C57-C62,C102-C107,C109 |
| 10        | 10              |                  | 1002424-00                    | 1200.0 MMF 100V 5%200PPM MICA  | 3             | C32,C33,C34                    |
| 11        | 11              |                  | 1013466-01                    | 10.0 MMF 50V 5% CER            | 2             | C35,C39                        |
| 12        | 12              | BLANK            | *** THIS ITEM IS NOT USED *** | -                              |               |                                |
| 13        | 13              |                  | 1013466-07                    | 220.0 MMF 50V 5% CER           | 1             | C38                            |
| 14        | 14              |                  | 1013466-24                    | 47.0 MMF 50V 5% CER            | 2             | C40,C41                        |
| 15        | 15              |                  | 1000075-00                    | 25 MFD 25V +75-10% AL EL       | 1             | C45                            |
| 16        | 16              |                  | 1013466-12                    | 2200.0 MMF 50V 10% X7R CER     | 5             | C6-C10                         |
| 17        | 17              |                  | 1100114-00                    | D 664 QS\75FCB PIV= 25V SP     | 10            | D5-D8,D18-D21,D23,D24          |
| 18        | 18              |                  | 1109943-00                    | 1N 4733A VZ= 5.1 5% 1W Y       | 1             | D3                             |
| 19        | 19              |                  | 1109502-00                    | 1N 4742 VZ= 12.0 10% 1W Y      | 1             | D4                             |
| 20        | 20              |                  | 1104860-00                    | 1N 746A VZ= 3.3 5%             | 1             | D9                             |
| 21        | 21              |                  | 1114136-00                    | LED 16MA 5V                    | 6             | D10-D15                        |
| 22        | 22              |                  | 1102421-00                    | 1N 753A VZ= 6.2 5% .40W P      | 2             | D16,D17                        |
| 23        | 23              |                  | 1209941-02                    | HEADER 100 40POS RT ANGLE      | 3             | J1-J3                          |
| 24        | 24              |                  | 1216988-02                    | HANDLE,MODULE,HEX TWO EJECTORS | 1             |                                |
| 25        | 25              |                  | 1211164-06                    | SW,DIP 1P 1A 10POS             | 3             | E39,E121,E134                  |
| 26        | 26              |                  | 1215006-08                    | SKT,IC 40PIN DIP TIN PLATE     | 1             | XE111                          |
| 27        | 27              |                  | 1300365-00                    | 1.0 K .25 W 5.0 % CC           | 51            | R1-R23,R27-R36,R92,R98,R103,   |
|           |                 |                  |                               |                                |               | CONT R132-R143,R146-R148       |
| 28        | 28              |                  | 1300271-00                    | 220.0 .25 W 5.0 % CC           | 10            | R24-R26,R37,R39-R44            |
| 29        | 29              |                  | 1303179-00                    | *** THIS ITEM IS NOT USED ***  | -             |                                |

|                  |                 |     |                         |  |                     |               |                      |                     |            |           |        |   |     |   |   |
|------------------|-----------------|-----|-------------------------|--|---------------------|---------------|----------------------|---------------------|------------|-----------|--------|---|-----|---|---|
| REVISION HISTORY |                 |     | BASIC PART NO: M8203    |  | DRN:                | DON MACKINNON | DATE: 31-AUG-79      | DBP                 | D          | I         | G      | I | T   | A | L |
| ENG              | ECO NUMBER      | REV | SECTION A OF A          |  |                     |               |                      |                     |            |           |        |   |     |   |   |
|                  |                 |     |                         |  | 94                  |               | 30 JAN 82            | TITLE PARTS LIST    |            |           |        |   |     |   |   |
| PH               | M8203-MK003A/3B | H   | SECTION VARIATION INDEX |  | CHK'D:              | NORM LANDRY   | DATE: 31-AUG-79      | MULTIDROP LINE UNIT |            |           |        |   |     |   |   |
| RH               | M8203-MK004     | J   | [A] 00                  |  |                     |               |                      |                     |            |           |        |   |     |   |   |
| RH               | M8203-MK005     | K   | [B]                     |  |                     |               |                      |                     |            |           |        |   |     |   |   |
| RH               | M8203-MK006     | L   | [C]                     |  | DES.ENG:            | PALL ALGISI   | DATE: 15-JAN-80      |                     |            |           |        |   |     |   |   |
| FB               | M8203-MK007     | M   | [D]                     |  |                     |               |                      | DOCUMENT NUMBER     |            |           |        |   |     |   |   |
| FB               | M8203--MK008    | N   | [E]                     |  | J. Backes 14 FEB 82 |               |                      |                     |            |           |        |   |     |   |   |
|                  |                 |     | [F]                     |  | RESP.ENG.:          | F. BACKES     | DATE: 19-JAN-82      |                     |            |           |        |   |     |   |   |
|                  |                 |     | [G]                     |  |                     |               |                      | SIZE                | CODE       | NUMBER    |        |   | REV |   |   |
|                  |                 |     | [H]                     |  |                     |               |                      |                     |            |           |        |   |     |   |   |
|                  |                 |     | [I]                     |  |                     |               |                      |                     |            |           |        |   |     |   |   |
|                  |                 |     | [J]                     |  |                     |               |                      |                     |            |           |        |   |     |   |   |
|                  |                 |     | [K]                     |  | MFG. NG.:           | AL DERICK     | DATE: 19-JAN-82      | K                   | PL         | M8203-0-0 |        |   | N   |   |   |
|                  |                 |     | [L]                     |  |                     |               |                      |                     |            |           |        |   |     |   |   |
|                  |                 |     | [M]                     |  | ASSEMBLY NUMBER:    |               | TOP DOCUMENT NUMBER: |                     | FILE NAME: |           | EDIT # |   |     |   |   |
|                  |                 |     | [N]                     |  | D-UA-M8203-0-0      |               | #B-DD-M8203-0        |                     | MK0480.PLS |           | 29     |   |     |   |   |

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| LINE | ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                    | QTY | PER VARIATION | REFERENCE DESIGNATOR                           |
|------|------|-----------------|-------------|--------------------------------|-----|---------------|--|
|      |      |                 |             |                                | 00  |               |  |
| 30   | 30   |                 | 1300447-00  | 4.70 K .25 W 5.0 % CC          | 9   |               | R56-R61,R87,R104,R105                          |
| 31   | 31   | BLANK           |             | *** THIS ITEM IS NOT USED ***  | -   |               |  |
| 32   | 32   |                 | 1300432-00  | 3.0 K .25 W 5.0 % CC           | 3   |               | R68,R69,R114                                   |
| 33   | 33   |                 | 1300247-00  | 120.0 .25 W 5.0 % CC           | 6   |               | R70-R72,R144,R145,R149                         |
| 34   | 34   |                 | 1300228-00  | 100.0 .50 W 5.0 % CC           | 1   |               | R73  |
| 35   | 35   |                 | 1300255-00  | 150.0 1.0 W 5.0 % CC           | 2   |               | R75,R76  |
| 36   | 36   |                 | 1313598-00  | 32.40 K .25 W 1.0 % RN55D-F10  | 4   |               | R88,R91,R110,R111                              |
| 37   | 37   |                 | 1300347-00  | 680.0 .50 W 5.0 % CC           | 1   |               | R151   |
| 38   | 38   |                 | 1313842-00  | 48.70 K .25 W 1.0 % RN55D-F10  | 2   |               | R93,R94  |
| 39   | 39   |                 | 1302886-00  | 10.0 K .25 W 1.0 % RN55C-F 5   | 7   |               | R95,R96,R108,R113,R117,R89,R90                 |
| 40   | 40   |                 | 1309418-00  | 24.30 K .25 W 1.0 % RN55D-F10  | 1   |               | R97  |
| 41   | 41   |                 | 1300250-00  | 150.0 .25 W 5.0 % CC           | 2   |               | R100,R101                                      |
| 42   | 42   |                 | 1302308-00  | 68.0 2.0 W 5.0 % CC            | 1   |               | R106   |
| 43   | 43   |                 | 1302378-00  | 51.0 .50 W 5.0 % CC            | 1   |               | R107   |
| 44   | 44   |                 | 1313077-00  | 12.80 K .25 W .10% RN55E-P 2   | 2   |               | R109,R112                                      |
| 45   | 45   |                 | 1300426-00  | 2.70 K .25 W 5.0 % CC          | 1   |               | R116   |
| 46   | 46   |                 | 1300479-00  | 10.0 K .25 W 5.0 % CC          | 2   |               | R125,R130                                      |
| 47   | 47   |                 | 1302389-00  | 4.30 K .25 W 5.0 % CC          | 2   |               | R119,R124                                      |
| 48   | 48   |                 | 1305653-00  | 22.0 1.0 W 10.0 % CC           | 2   |               | R120,R123                                      |
| 49   | 49   |                 | 1300168-00  | 10.0 .50 W 5.0 % CC            | 2   |               | R121,R122                                      |
| 50   | 50   |                 | 1300444-00  | 3.90 K .25 W 5.0 % CC          | 1   |               | R126   |
| 51   | 51   |                 | 1300496-00  | 15.0 K .25 W 5.0 % CC          | 2   |               | R127,R129                                      |
| 52   | 52   |                 | 1300391-00  | 1.50 K .25 W 5.0 % CC          | 1   |               | R128   |
| 53   | 53   |                 | 1302466-00  | 100.0 K .25 W 5.0 % CC         | 1   |               | R131   |
| 54   | 54   |                 | 1515018-00  | 2N 2905A PNP 600MW SI 40 10C   | 1   |               | Q2   |
| 55   | 55   |                 | 1501881-00  | DEC221P NPN 3WC SI 30100       | 1   |               | Q1   |
| 56   | 56   |                 | 1509338-00  | DEL6531B NPN 310.1W SI 40 90 P | 2   |               | Q3,Q4  |
| 57   | 57   |                 | 1503409-00  | DEC6534D PNP 310MW SI 40 90    | 1   |               | Q5   |
| 58   | 58   |                 | 1516150-00  | VN 35AK FET 50MW               | 6   |               | Q6-Q11   |
| 59   | 59   |                 | 1602723-00  | 1000 UH 10% 125MA              | 2   |               | L1,L2  |
| 60   | 60   |                 | 1612946-01  | 33 UH 10% 260MA                | 2   |               | L3,L4  |
| 61   | 61   |                 | 1616045-00  | XFMR,PULSE,RATIO 1:1,1500PV    | 1   |               | T2   |
| 62   | 62   |                 | 1616303-00  | PULSE XFMR,RATIO 1:1:1         | 1   |               | T1   |
| 63   | 63   |                 | 1811660-00  | OSCILLATOR, XTAL 20.000 MHZ    | 1   |               | E5   |
| 64   | 64   |                 | 1914214-00  | LS374 FF-D OCTAL EDGE TRIG     | 13  |               | E86,E88,E109,E122,E123,E125,<br>E126,E128-E133 |
| 65   | 65   |                 | 1913462-00  | 74S240 OCTAL BUFFER,INVERTI    | 2   | CONT          | E74-E97  |
| 66   | 66   |                 | 1911675-00  | 74S138 DECODER/DEMUX 3-8 LIN   | 3   |               | E59,E108,E119                                  |
| 67   | 67   |                 | 1912863-00  | LS273 FF-D OCTAL W/CLEAR       | 6   |               | E58,E66,E87,E90,E91,E94                        |
| 68   | 68   |                 | 1912697-00  | LS174 FF-D HEX W/CLEAR         | 2   |               | E92,E96  |
| 69   | 69   |                 | 1910534-00  | 74S04 INVERTER GATE-HEX 1I     | 1   |               | E17  |
| 70   | 70   |                 | 1912824-00  | LS74 FF-D DUAL,EDGE TRIGG      | 7   |               | E4,E62,E63,E68,E80,E84,E118                    |
| 71   | 71   |                 | 1912849-00  | LS161 COUNTER,SYNCHR,4 IT      | 1   |               | E27  |
| 72   | 72   |                 | 1913294-00  | 93S16 COUNTER,SYNCH UP BIN     | 4   |               | E7,E8,E16,E56                                  |
| 73   | 73   |                 | 1910956-00  | 74S151 MUX 1 OF 8              | 1   |               | E26  |
| 74   | 74   |                 | 1912847-00  | LS157 MUX 1 OF 2 (QUAD)        | 2   |               | E46,E95  |
| 75   | 75   |                 | 1910548-00  | 74S157 MUX 1 OF 2 (QUAD)       | 1   |               | E120   |
| 76   | 76   |                 | 1915193-00  | LS244 DRIVER,LINE,OCTAL,T      | 9   |               | E64,E65,E89,E98,E99,E101,E110,                 |

| D | I | G | I | T | A | L | TITLE               | SECTION A | OF A | SIZE | CODE | DOCUMENT NUMBER | REV |
|---|---|---|---|---|---|---|---------------------|-----------|------|------|------|-----------------|-----|
|   |   |   |   |   |   |   | MULTIDROP LINE UNIT |           |      |      |      | M8203-0-0       | N   |

| LINE ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QTY | PER VARIATION | REFERENCE DESIGNATOR       |
|-----------|-----------------|-------------|----------------------------------|-----|---------------|----------------------------|
|           |                 |             |                                  | 00  |               |                            |
|           |                 |             |                                  |     | CONT          | E112,E113                  |
| 77        | 77              | 1912816-00  | LS32 OR GATE-QUAD 2IN,POS        | 4   |               | E20,E51,E81,E83            |
| 78        | 78              | 1913777-00  | LS240 DRIVER,LINE,OCTAL,T        | 4   |               | E28,E50,E52,E93            |
| 79        | 79              | 1915125-00  | 3691 DRIVER,QUAD,EIA RS-         | 2   |               | E37,E53                    |
| 80        | 80              | 1912742-00  | 75112 DRIVER,DUAL LINE           | 1   |               | E13                        |
| 81        | 81              | 1915851-00  | 26LS31 DRIVER,QUAD,EIA RS        | 1   |               | E23                        |
| 82        | 82              | 1915694-00  | 3692 DRIVER,QUAD,EIA RS-4        | 1   |               | E24                        |
| 83        | 83              | 1915123-02  | 26LS32-2 RECEIVER,LINE,12K T     | 3   |               | E38,E54,E55                |
| 84        | 84              | 1914091-00  | 3603 RECEIVER,LINE,DUAL          | 3   |               | E1,E14,E15                 |
| 85        | 85              | 1910550-00  | 74S171 FF-D HEX                  | 2   |               | E77,E78                    |
| 86        | 86              | 1910544-00  | 74S74 FF-D DUAL,EDGE TRIGG       | 7   |               | E9,E10,E18,E35,E47,E61,E11 |
| 87        | 87              | 1910741-00  | 7406 INVERTER GATE-HEX 1I        | 1   |               | E67                        |
| 88        | 88              | 1912805-00  | LS08 AND GATE-QUAD 2IN,PO        | 6   |               | E31,E33,E60,E72,E79,E82    |
| 89        | 89              | 1912808-00  | LS11 AND GATE-TRIPLE 3IN         | 3   |               | E61,E105,E117              |
| 90        | 90              | 1912821-00  | LS54 A-O-I GATE,3-2-2-3IN        | 1   |               | E85                        |
| 91        | 91              | 1910536-00  | 74S10 NAND GATE-TRIPLE 3IN       | 2   |               | E48,E106                   |
| 92        | 92              | 1912801-00  | LS02 NOR-GATE-QUAD 2IN           | 1   |               | E73                        |
| 93        | 93              | 1910537-00  | 74S11 AND GATE-TRIPLE 3INP       | 1   |               | E49                        |
| 94        | 94              | 1910011-00  | DEC 7486 X-OR GATE-QUAD 2INPU    | 1   |               | E43                        |
| 95        | 95              | 1911712-00  | 74S51 AND-OR GATE-INVERT D       | 2   |               | E32,E44                    |
| 96        | 96              | BLANK       | *** THIS ITEM IS NOT USED ***    | -   |               |                            |
| 97        | 97              | 1912850-00  | LS164 SHIFT REG. 8BIT SERI       | 3   |               | E21,E30,E42                |
| 98        | 98              | 1910735-02  | 318 OP AMP                       | 3   |               | E2,E6,E3                   |
| 99        | 99              | 1910532-00  | 74S00 NAND GATE-QUAD 2IN         | 2   |               | E12,E34                    |
| 100       | 100             | 1910545-00  | 74S112 FF-JK DUAL,EDGE TRIG      | 2   |               | E19,E25                    |
| 101       | 101             | 1912803-00  | 74LS04 INVERTER GATE,HEX         | 1   |               | E22                        |
| 102       | 102             | 1912853-00  | LS175 FF-D QUAD                  | 1   |               | E29                        |
| 103       | 103             | 1912799-00  | LS00 NAND-GATE-QUAD 2IN,P        | 2   |               | E70,E71                    |
| 104       | 104             | 2111188-01  | 3341-01 64X4 FIFO MEMORY         | 6   |               | E102-E104,E114-E116        |
| 105       | 105             | 2112517-01  | RECIEVER/TRANSMITTER             | 1   |               | E111                       |
| 106       | 106             | 23043R1-00  | B1-01                            | 1   |               | F41                        |
| 107       | 107             | 23032B1-00  | B1-01                            | 1   |               | E100                       |
| 108       | 108             | 23036F1-00  | F1-01                            | 1   |               | E76                        |
| 109       | 109             | 23037F1-00  | F1-01                            | 1   |               | E75                        |
| 110       | 110             | 23042B1-00  | B1-01                            | 1   |               | E57                        |
| 111       | 111             | 9009185-00  | JUMPER, WIRE, INSULATED, BLACK B | 8   |               | W7-W10,W12,W13,W17,W18     |
| 112       | 112             | 9000024-01  | EYELET,ROLL FLANGE .1210DX .192  | 10  |               |                            |
| 113       | 113             | 1013466-31  | 15.0 MMF 50V 5% CER              | 1   |               | C42                        |
| 114       | 114             | 1301890-00  | 560.0 .25 W 5.0 % CC             | 2   |               | R85,R86                    |
| 115       | 115             | 1101938-00  | 1N 4370A VZ= 2.4 5% .40W         | 1   |               | D22                        |
| 116       | 116             | 1301422-00  | 7.50 K .25 W 5.0 % CC            | 11  |               | R45-R55                    |
| 117       | 117             | 1209941-03  | HEADER RT ANGLE LEFT L           | 2   |               |                            |
| 118       | 118             | 1209941-04  | HEADER RT ANGLE,RIGHT            | 2   |               |                            |
| 119       | 119             | 1316115-00  | 35.70 .25 W 1.0 % RN55D-F10      | 4   |               | R81-R84                    |
| 120       | 120             | 1316736-00  | 374.0 .25 W 1.0 % RN55D-F10      | 4   |               | R77-R80                    |
| 121       | 121             | 1312928-00  | 51.0 .25 W 5.0 % CC              | 6   |               | R62-R67                    |
| 122       | 122             | 9007201-00  | TRANSIPADS #10253                | 8   |               |                            |

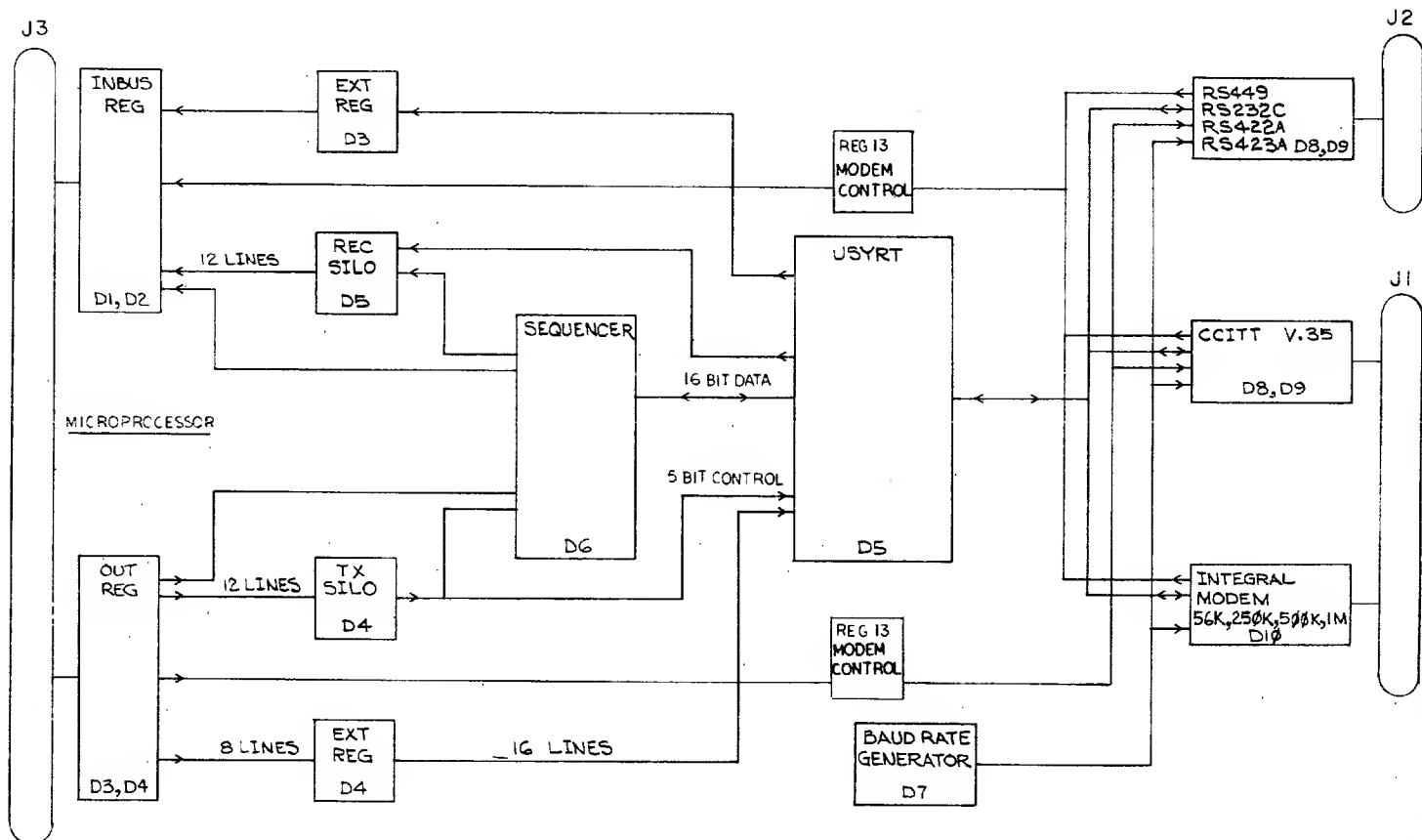
| D | I | G | I | T | A | L | TITLE               | SECTION A | OF A | SIZE | CODE | DOCUMENT NUMBER | REV |
|---|---|---|---|---|---|---|---------------------|-----------|------|------|------|-----------------|-----|
|   |   |   |   |   |   |   | MULTIDROP LINE UNIT |           |      |      |      | M8203-0-0       | N   |

MK

| WRITE<br>OUTREG | 7                   | 6                | 5    | 4    | 3             | 2            | 1     | 0     | READ<br>IBUS REG | 7                              | 6                | 5             | 4    | 3             | 2            | 1            | 0    |       |
|-----------------|---------------------|------------------|------|------|---------------|--------------|-------|-------|------------------|--------------------------------|------------------|---------------|------|---------------|--------------|--------------|------|-------|
| 10              | TRANSMIT DATA SILO  |                  |      |      |               |              |       |       |                  | RECEIVER DATA SILO             |                  |               |      |               |              |              |      |       |
| 11              | OC                  |                  |      |      | GOAH          |              | ABORT | EDM   | SOM              | OC                             | OACT             | SW            | ORDY | SW            | SW           | SW           | UNDR |       |
| 12              | IC                  | BPC              | LULP |      |               |              |       |       |                  | IC                             | IACT             | LULP          | IRDY | OVRR          | RAB          | EBLK         | BCC  |       |
| 13              | POLL                | DTR              | SEL  | FREQ | FDX           | MAINT        | MAINT | SEL   |                  | RING                           | DTR              | RS            | HDX  | MODR          | CS           | STBY         | CARR |       |
| 14              |                     | TX<br>ENA<br>*** | DIS  | SI   | RDAX          | WAX          | ENAX  | AX2   | AX1              | RDY                            | TX<br>ENA<br>*** | DIS           | SI   | RDAX          | WAX          | ENAX         | AX2  | AX1   |
| 15              | LOW BYTE EXT REG    |                  |      |      |               |              |       |       |                  | SWITCH PACK (x) / LOW BYTE EXT |                  |               |      |               |              |              |      |       |
| 16              | HI BYTE EXT REG     |                  |      |      |               |              |       |       |                  | SWITCH PACK (y) / HI BYTE EXT  |                  |               |      |               |              |              |      |       |
| 17              | CRC                 | TYPE             | IDLE | SECA | STRIP         | RDALL        | ERR   | DDCMP |                  | SIG                            | Q                | SIGR          | SI   | OCOR          | ICIR         | TEST<br>MODE | ECS  | DDCMP |
| AX0-15          | NOT USED            |                  |      |      |               |              |       |       |                  | RECEIVER DATA USYRT            |                  |               |      |               |              |              |      |       |
| AX0-16          | NOT USED            |                  |      |      |               |              |       |       |                  | RERR                           |                  |               |      |               |              |              |      |       |
| AX1-15          | TRANSMIT DATA USYRT |                  |      |      |               |              |       |       |                  | TRANSMIT DATA USYRT            |                  |               |      |               |              |              |      |       |
| AX1-16          |                     |                  |      |      | TXGA          | TXAB         | TEOM  | TOM   |                  | TERR                           |                  |               |      |               | TXGA         | TXAB         | TEOM | TOM   |
| AX2-15          | SYNC CHARACTER      |                  |      |      |               |              |       |       |                  | SYNC CHARACTER                 |                  |               |      |               |              |              |      |       |
| AX2-16          | NOT USED            |                  |      |      |               |              |       |       |                  |                                |                  |               |      |               |              |              |      |       |
| AX3-15          | 422                 | XYZ              |      | V.35 | INT           | CR32<br>**EN | 0     | TEST  |                  | APA                            | DDCMP            | STRIP         | SECA | IDLE          | CRC TYPE     |              |      |       |
| AX3-16          | TX CH LENGTH        |                  | *    | *    | REC CH LENGTH |              |       |       |                  | 422                            | XYZ              | CR32<br>**BCC | V.35 | INT           | CR32<br>**EN | 0            | TEST |       |
|                 | TX CH LENGTH        |                  | *    | *    | REC CH LENGTH |              |       |       |                  | TX CH LENGTH                   |                  | *             | *    | REC CH LENGTH |              |              |      |       |

NOTES:

- AX REGISTERS ARE INDIRECTLY ADDRESSED BY USING AX1+AX2 FOR ADDRESS, WAX FOR WRITE, RDAX FOR READ, REGISTERS 15+16 FOR DATA, ENAX GOING TO A ONE TO START THE OPERATION AND RDY TO TELL WHEN THE OPERATION IS COMPLETE.
- BIT MAP AS SEEN BY THE KMC11 AND DMC11 MICRO PROCESSORS.
- \* DEFINED DIFFERENT WITH EACH USYRT VENDOR, CHARACTER LENGTH ENABLE WITH STANDARD USYRT
- \*\* OPTIONAL WHEN CRC32 CHIP IS INSTALLED.
- \*\*\* BIT 6 OF REG 14 IS DEFINED DIFFERENTLY DEPENDING ON THE STATE OF BITS:  
BIT 5=0 BIT 6 WILL LOCK RTS ON  
BIT 5=1 BIT 6 WITH ENABLE USYRT TRANSMITTER.



| REV. | CHG. | DATE      | BY | CHKD. | APPD. | REV. | CHG. | DATE      | BY | CHKD. | APPD. |
|------|------|-----------|----|-------|-------|------|------|-----------|----|-------|-------|
| 1    |      | 14-JAN-80 | E  |       |       | 1    |      | 14-JAN-80 | E  |       |       |
| 2    |      | 14-JAN-80 | E  |       |       | 2    |      | 14-JAN-80 | E  |       |       |
| 3    |      | 14-JAN-80 | E  |       |       | 3    |      | 14-JAN-80 | E  |       |       |
| 4    |      | 14-JAN-80 | E  |       |       | 4    |      | 14-JAN-80 | E  |       |       |
| 5    |      | 14-JAN-80 | E  |       |       | 5    |      | 14-JAN-80 | E  |       |       |
| 6    |      | 14-JAN-80 | E  |       |       | 6    |      | 14-JAN-80 | E  |       |       |
| 7    |      | 14-JAN-80 | E  |       |       | 7    |      | 14-JAN-80 | E  |       |       |
| 8    |      | 14-JAN-80 | E  |       |       | 8    |      | 14-JAN-80 | E  |       |       |

|                   |         |               |               |               |
|-------------------|---------|---------------|---------------|---------------|
| DRN. 1-0-0028W    | 12-8-78 | FIRST USED ON | DMP11-AD      | digital       |
| CHK'D             | 10-8-78 | ENG. 10-8-78  | PROJ. 10-8-78 | PRDD. 10-8-78 |
| NEXT HIGHER ASSY. |         |               |               |               |
| B-DD-M8203-0      | SCALE   | NONE          | SIZE          | CODE          |
| SHEET             | 1 OF 15 | DIST.         | NUMBER        | REV.          |
| MK                |         | 1             |               |               |

# M8203 OPTIONS:

## SWITCHES:

REGISTER 15 BITS 0-7 E134 1-8.  
REGISTER 16 BITS 0-7 E121 1-8.  
REGISTER 11  
REGISTER 11 BIT 1 E121 10  
BIT 2 E121 9  
BIT 3 E134 9  
BIT 5 E134 10

E39 SELECTS THE DATA RATE WITH SWITCHES 8,9,10.

| <u>SW</u> | 8   | 9   | 10 | <u>DATA RATE</u> |
|-----------|-----|-----|----|------------------|
| ON        | ON  | ON  |    | 1 MBPS           |
| OFF       | ON  | ON  |    | 500 KBPS         |
| ON        | OFF | ON  |    | 250 KBPS         |
| OFF       | OFF | ON  |    | 56 KBPS          |
| ON        | ON  | OFF |    | 19.2 KBPS        |
| OFF       | ON  | OFF |    | 9.6 KBPS         |
| ON        | OFF | OFF |    | 4.8 KBPS         |
| OFF       | OFF | OFF |    | 2.4 KBPS         |

E39 SWITCH 5 SELECTS V.35 INTERFACE.  
E39 SWITCH 6 SELECTS THE OPTICS, IF AVAILABLE.  
E39 SWITCH 7 SELECTS RS422.  
\* CRC 32 CHIP CAN BE INSTALLED IN E124.

## JUMPERS:

W1 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "CLEAR TO SEND" RECEIVER.  
W2 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "DATA MODE" RECEIVER.  
W3 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "RECEIVER DATA" RECEIVER.  
W4 CAN BE USED AS A RESISTOR OR CAPACITOR FOR THE "RECEIVER CLOCK" RECEIVER.  
W5 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "RECEIVER READY" READY.  
W6 CAN BE USED FOR RESISTOR OR CAPACITOR FOR THE "TRANSMITTER CLOCK" RECEIVER.  
W7 BC05C ONLY PIN 9 BERG Y IS NORMALLY IN BUT CAN BE REMOVED TO DISABLE "SIGNAL RATE" ON SOME MODEMS THAT USE THIS SIGNAL AS A TEST CLOCK.  
W8 BC05C ONLY PIN 18 BERG U "DATA MODE" - JUMPER "NORMALLY IN" CAN BE USED WHEN PROBLEMS OCCUR WITH SOME MODEMS.  
W9 "NULL CLK" MAY CAUSE PROBLEMS WITH SOME MODEMS. REMOVE JUMPER FOR THESE APPLICATIONS.  
W10 BC05C ONLY PIN 10, BERG W "TERMINAL READY" - IS CONNECTED TO A TEST VOLTAGE ON SOME MODEMS.  
W11 INSTALL THIS JUMPER WHEN THE MODEM USED DOES NOT PROVIDE THE "CARRIER SIGNAL". THE CLOCKING OUT CIRCUIT WILL NOT WORK. THIS MAY CAUSE PROBLEMS WITH THE MICROCODE.

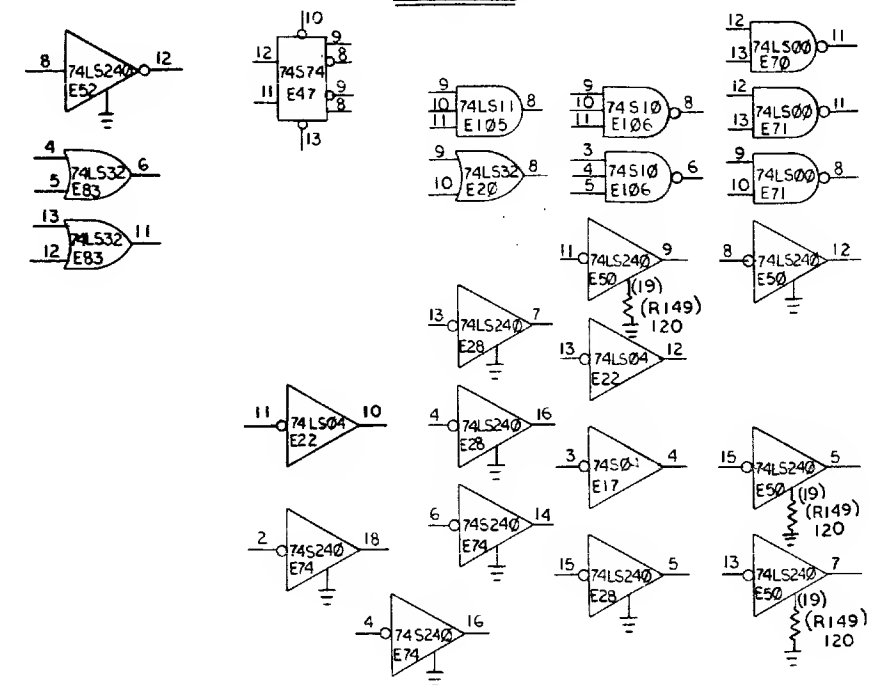
## JUMPERS: (CONT'D).

W12 BC05C ONLY 'TERMINAL IN SERVICE', THIS MAY CAUSE PROBLEMS WITH SOME MODEMS.  
W14 & W15 THESE JUMPERS ARE USED TO REDUCE THE BANDPASS OF THE RECEIVER FILTER ON THE INTEGRAL MODEM. (USE FOR 56 KBPS ONLY).  
W13 INSTALL AFTER GR TEST.  
W16 THIS JUMPER IS USED ONLY IF THE MODEM HAS A DELAY LONGER THAN FOUR BIT TIMES FOR NEGATING CLEAR TO SEND AFTER REQUEST TO SEND IS NEGATED. IF THE JUMPER IS NOT CHANGED A LOSS OF THE FIRST SYNC CHARACTER IS POSSIBLE CAUSING RANDOM LOSS OF MESSAGES, WHICH WILL CAUSE MORE RETRANSMISSIONS AND SOFT ERRORS.  
W17 THIS JUMPER IS USED FOR MODEMS HAVING CONTINUOUS CARRIER, (NOT CONTROLLED BY REQUEST TO SEND FROM THE OTHER END).  
W18 NOT TO BE REMOVED.

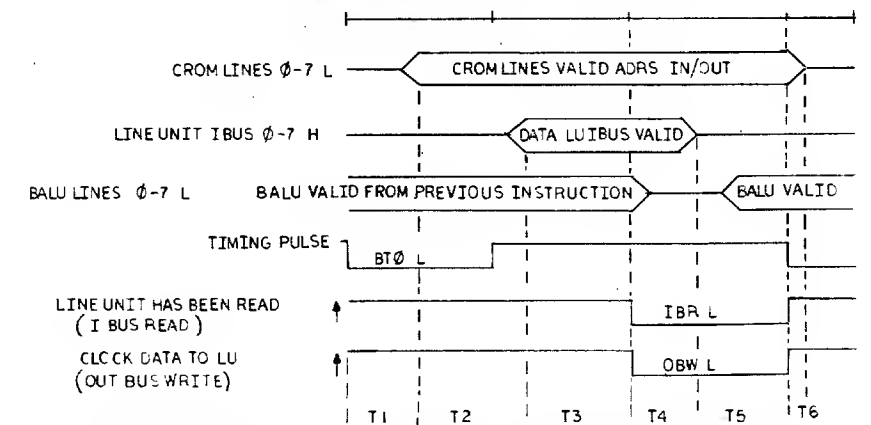
## LEDS:

THERE ARE 6 LEDS ON THE M8203 TO AID THE FIELD MAINTENANCE OF THE M8203. THESE LEDS INDICATE STATUS OF THE MODEM THAT IS BEING USED WITH THE M8203 OR THE INTEGRAL MODEM IF IT IS SELECTED.  
D10 SIGNAL QUALITY (NOT USED WITH THE INTEGRAL MODEM).  
D11 CARRIER (INDICATE THE RECEIVER IS IN SYNC).  
D12 RECEIVER DATA.  
D13 TRANSMIT DATA.  
D14 REQUEST TO SEND.  
D15 BEEN POLLED. (THIS IS FROM THE MICROPROCESSOR AND IS DEFINED BY THE OPTION MANUAL).

## SPARES:



## J3 MICRO CONTROLLER TIMING



T1 + T2 = 60 NS MAXIMUM  
T2 = 50 NS MAXIMUM  
T3 = NA  
T4 = NA  
T5 = 25 NS MAXIMUM  
T6 = 16 NS MAXIMUM

BT0 L ↓ TO DATA VALID LUIBUS  
CROM LINES VALID TO DATA VALID LUIBUS  
BALU VALID TO OBW L ↑  
OBW L ↑ TO CROM LINES INVALID

## REVISIONS

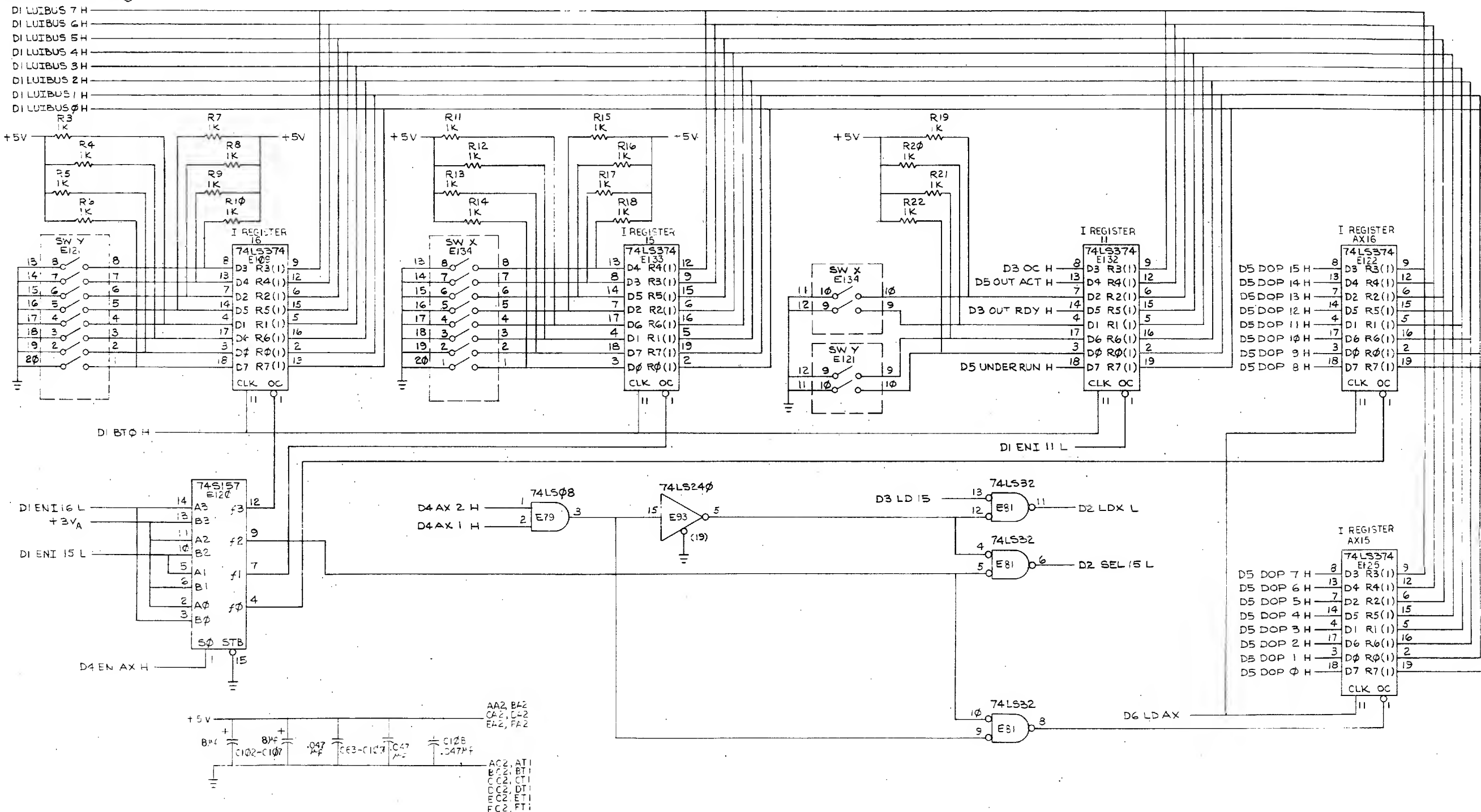
| CHK | CHANGE NO. | REV. |
|-----|------------|------|
|-----|------------|------|

|       |                     |           |   |        |           |      |   |
|-------|---------------------|-----------|---|--------|-----------|------|---|
| TITLE | MULTI DROPLINE UNIT | SIZE CODE | D | NUMBER | M8203-0-1 | REV. | N |
| SCALE | ++                  | SHEET     | 2 | OF     | 15        |      |   |

MK

DEC FORM 11  
2-69 1-69

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| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

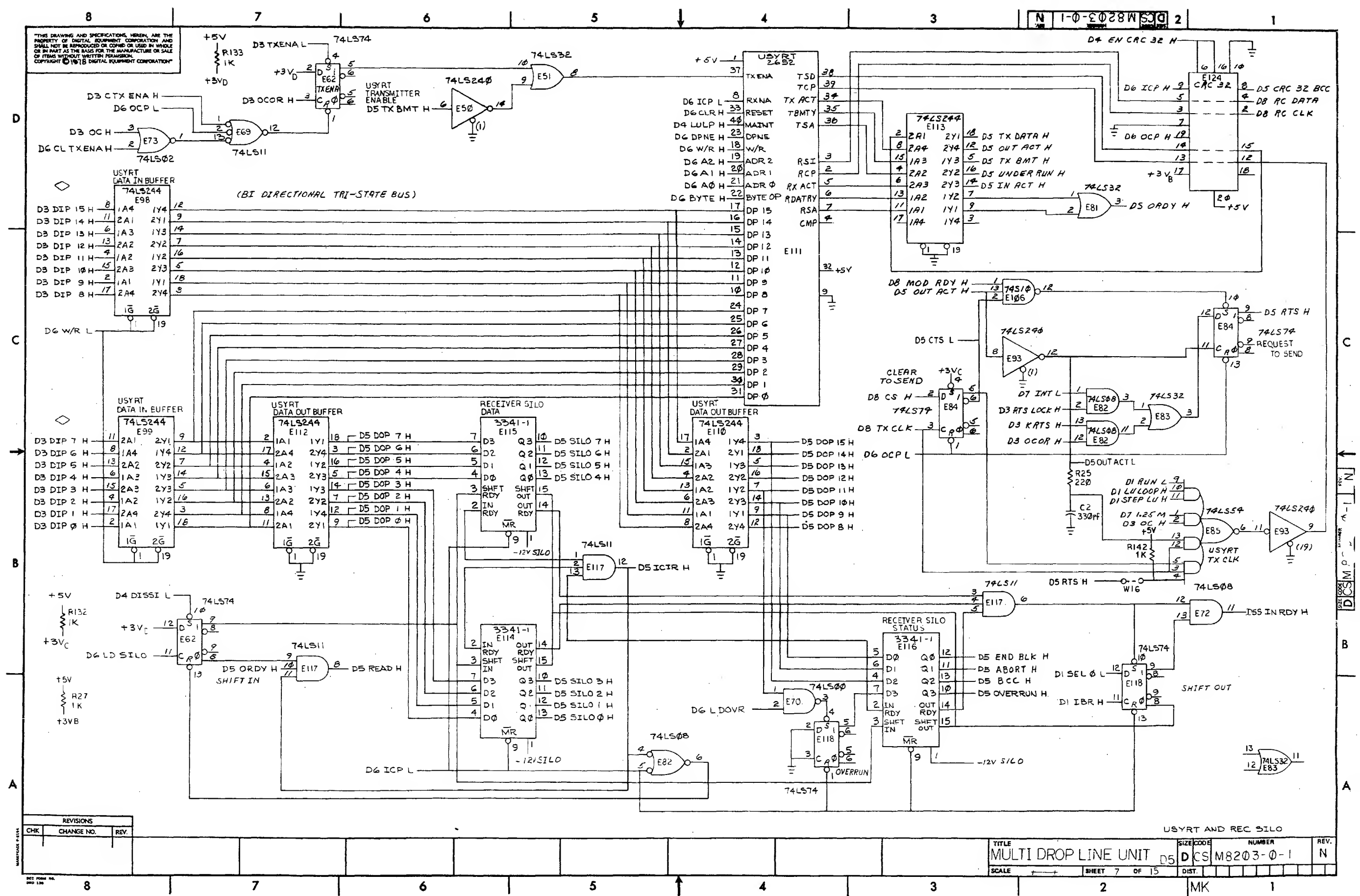
(INBUS REGISTERS)

| TITLE                   |       | SIZE CODE | NUMBER       | REV. |
|-------------------------|-------|-----------|--------------|------|
| MULTI DROP LINE UNIT D2 |       | D         | CS M8203-0-1 | N    |
| SCALE                   | SHEET | 4 OF 15   | DIST.        |      |









|                         |  |               |  |           |  |           |  |  |  |      |  |
|-------------------------|--|---------------|--|-----------|--|-----------|--|--|--|------|--|
| TITLE                   |  |               |  | SIZE CODE |  | NUMBER    |  |  |  | REV. |  |
| MULTI DROP LINE UNIT D6 |  |               |  | D CS      |  | M8203-0-1 |  |  |  | N    |  |
| SCALE                   |  | SHEET 8 OF 15 |  | DIST.     |  |           |  |  |  |      |  |

| REVISIONS |            |      | (SEQUENCER) |  |  |  |  |  |  |                      |  |               |      |        |           |  |  |      |   |  |
|-----------|------------|------|-------------|--|--|--|--|--|--|----------------------|--|---------------|------|--------|-----------|--|--|------|---|--|
| CHK       | CHANGE NO. | REV. |             |  |  |  |  |  |  | TITLE                |  | SIZE          | CODE | NUMBER |           |  |  | REV. |   |  |
|           |            |      |             |  |  |  |  |  |  | MULTI DROP LINE UNIT |  | D6            | D    | CS     | M&203-0-1 |  |  |      | N |  |
|           |            |      |             |  |  |  |  |  |  | SCALE                |  | SHEET 8 OF 15 |      | DIST.  |           |  |  |      |   |  |

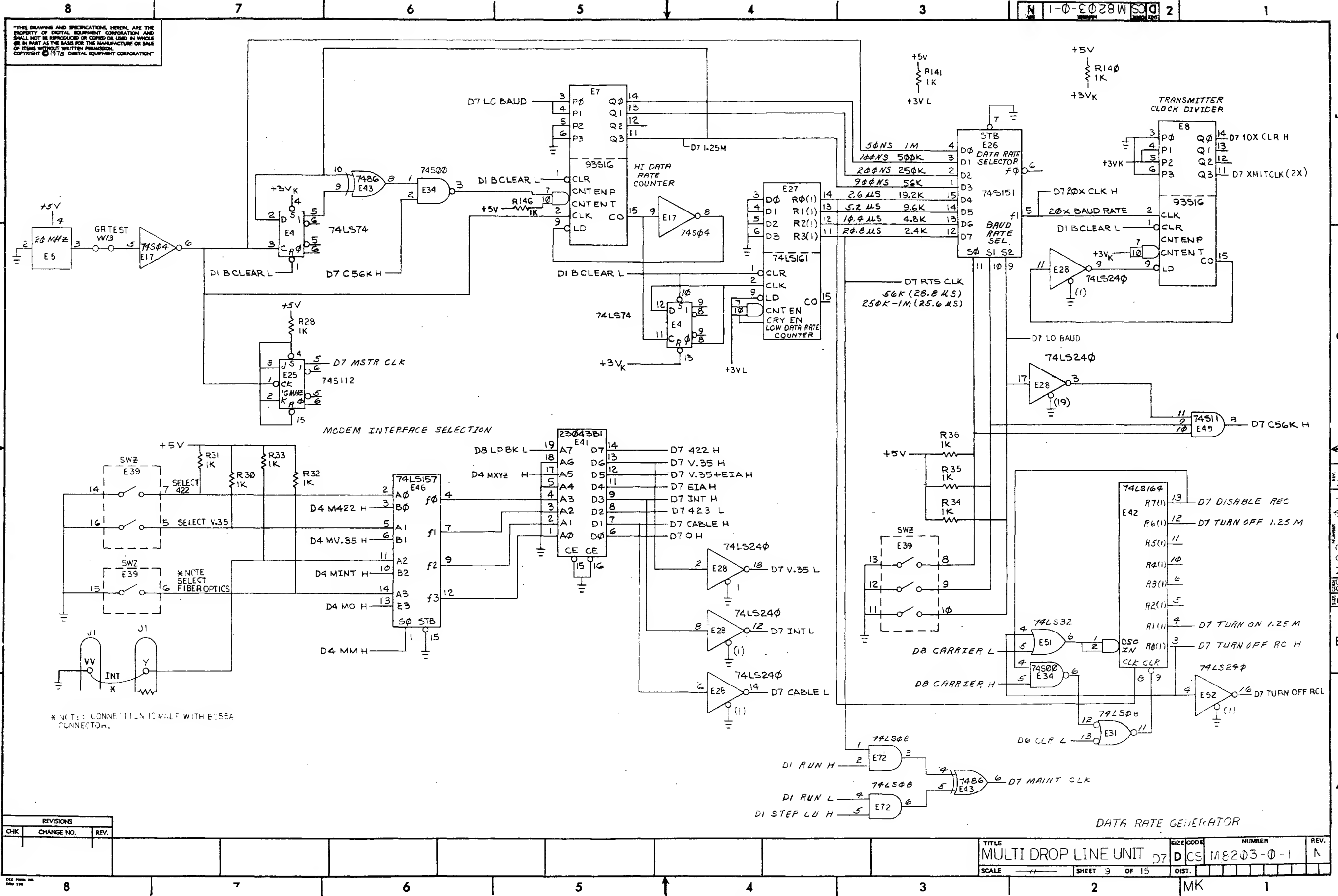
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D

C

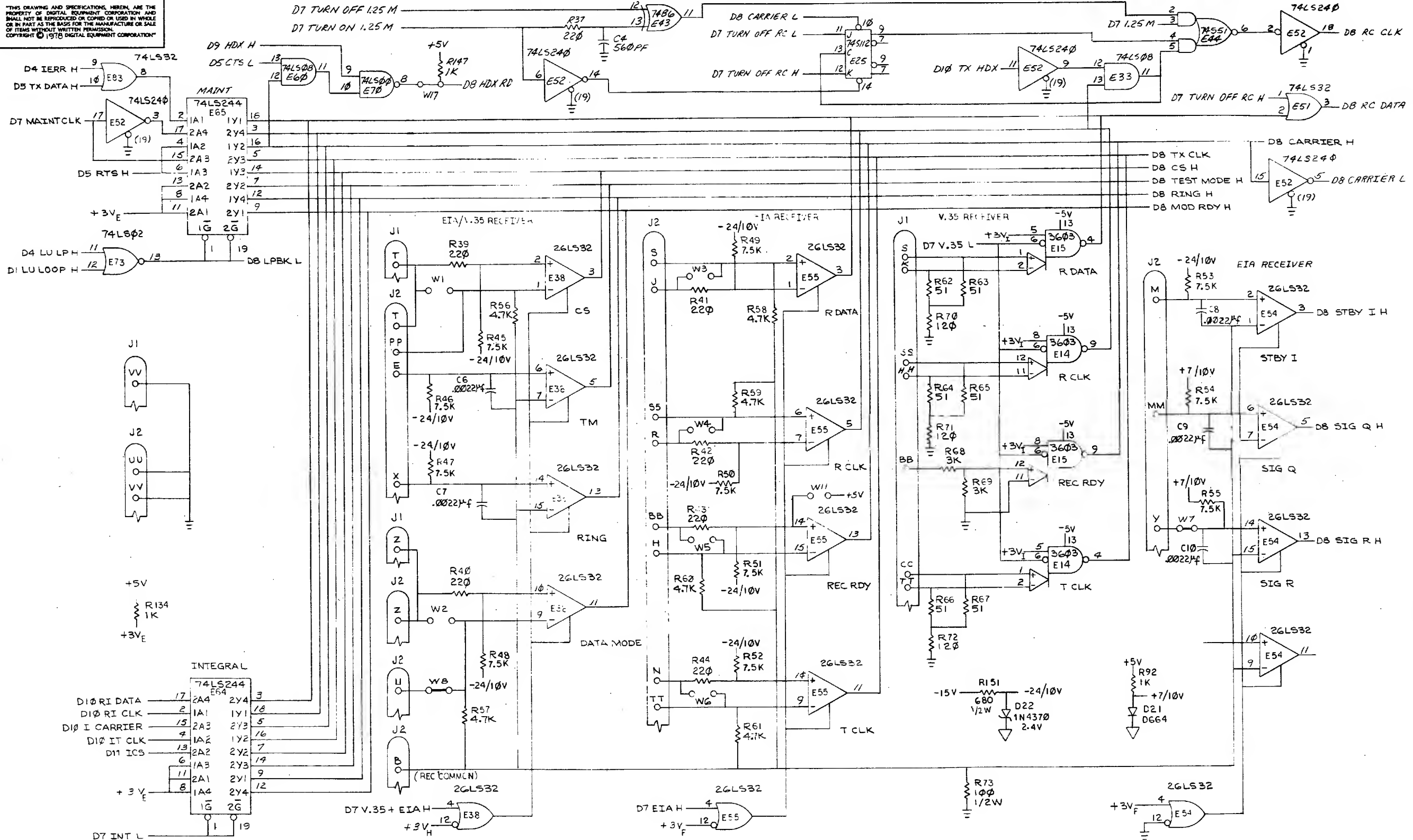
B

A



|                         |           |            |      |  |  |  |  |  |  |  |  |  |  |                         |  |               |  |           |  |      |   |   |  |    |  |   |  |   |  |
|-------------------------|-----------|------------|------|--|--|--|--|--|--|--|--|--|--|-------------------------|--|---------------|--|-----------|--|------|---|---|--|----|--|---|--|---|--|
| MAX PAGE 72184          | REVISIONS |            |      |  |  |  |  |  |  |  |  |  |  | DATA RATE GENERATOR     |  |               |  |           |  |      |   |   |  |    |  |   |  |   |  |
|                         | CHK       | CHANGE NO. | REV. |  |  |  |  |  |  |  |  |  |  | TITLE                   |  | SIZE CODE     |  | NUMBER    |  | REV. |   |   |  |    |  |   |  |   |  |
|                         |           |            |      |  |  |  |  |  |  |  |  |  |  | MULTI DROP LINE UNIT D7 |  | D CS          |  | 18203-0-1 |  |      | N |   |  |    |  |   |  |   |  |
|                         |           |            |      |  |  |  |  |  |  |  |  |  |  | SCALE                   |  | SHEET 9 OF 15 |  | OIST.     |  |      |   |   |  |    |  |   |  |   |  |
|                         |           |            |      |  |  |  |  |  |  |  |  |  |  |                         |  |               |  |           |  |      |   |   |  |    |  |   |  |   |  |
| DEC 1990 100<br>DRG 100 |           |            |      |  |  |  |  |  |  |  |  |  |  | 8                       |  | 7             |  | 6         |  | 5    |   | 4 |  | 3  |  | 2 |  | 1 |  |
|                         |           |            |      |  |  |  |  |  |  |  |  |  |  |                         |  |               |  |           |  |      |   |   |  | MK |  |   |  |   |  |

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# EIA TRANSMITTERS

# EIA TRANSMITTERS

- NOTE:
- 26LS30 AND 26LS29 USE  $\pm 6V$   
26LS29 AND 26LS30  
+6V PIN1  
-6V PIN8  
GND PIN5
  - PINS F, L, V, AND DD OF J2 ARE SHOWN TWICE ON THIS PAGE

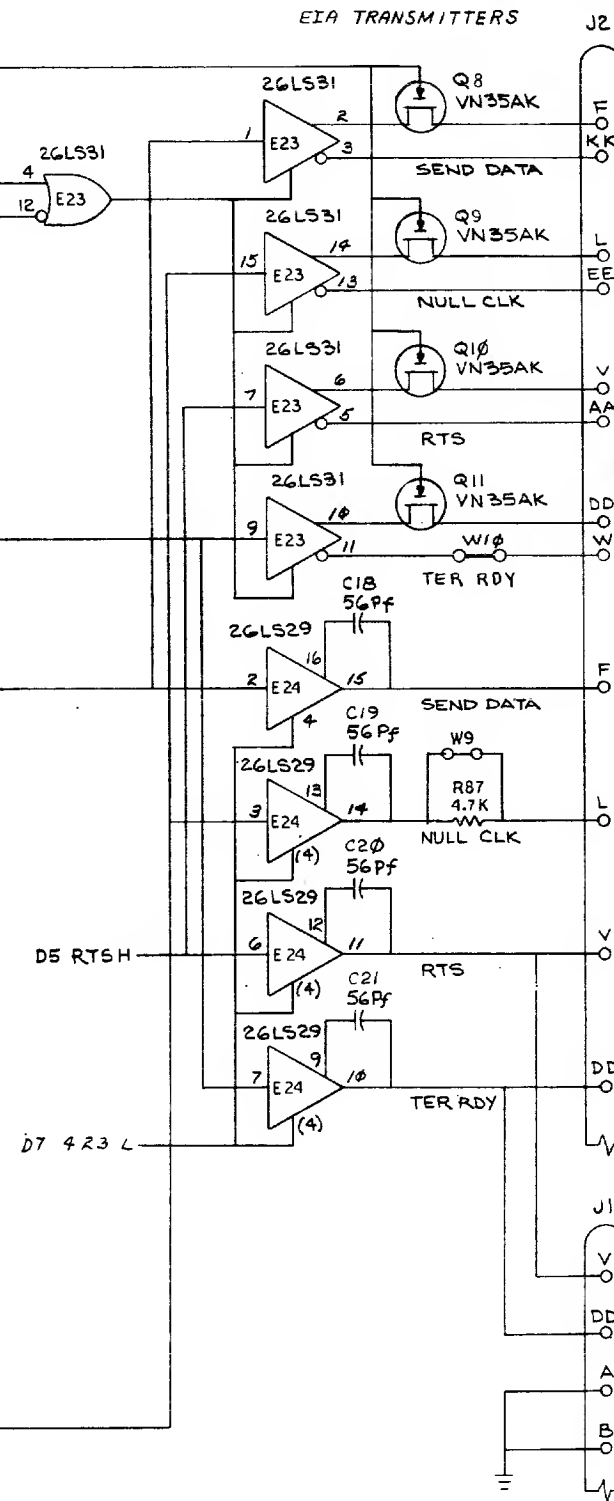
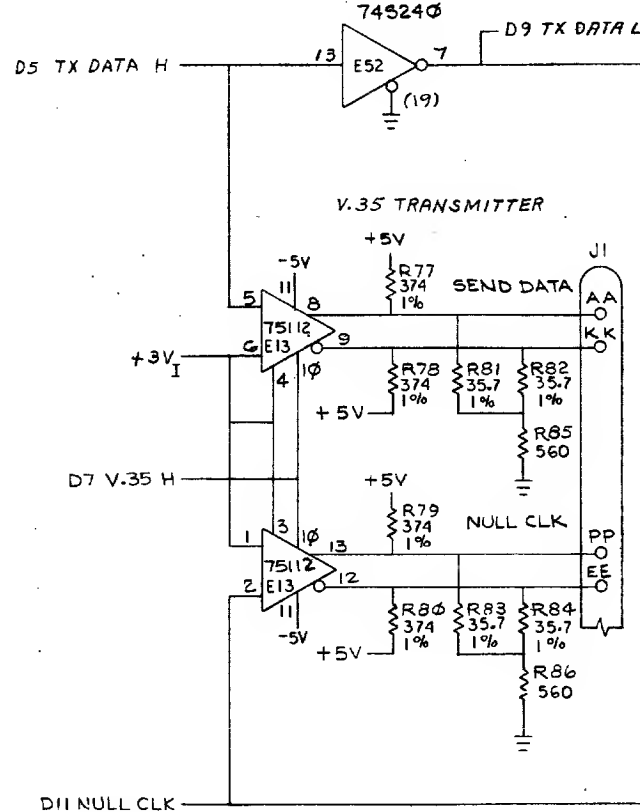
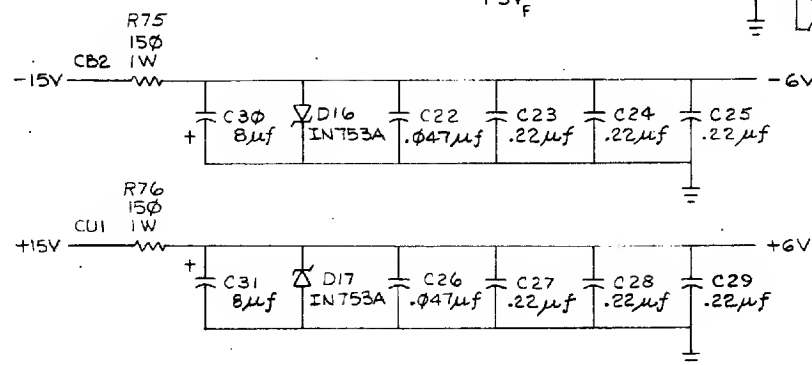
26LS30 = 3691  
26LS29 = 3692

## 0 REGISTER 13

D3 BALU 7 H 18  
D3 BALU 6 H 17  
D3 BALU 5 H 14  
D3 BALU 4 H 13  
D3 BALU 3 H 8  
D3 BALU 2 H 7  
D3 BALU 1 H 4  
D3 BALU 0 H 3

D3 LD 13

D18  
R148  
+5V  
C109  
84uf



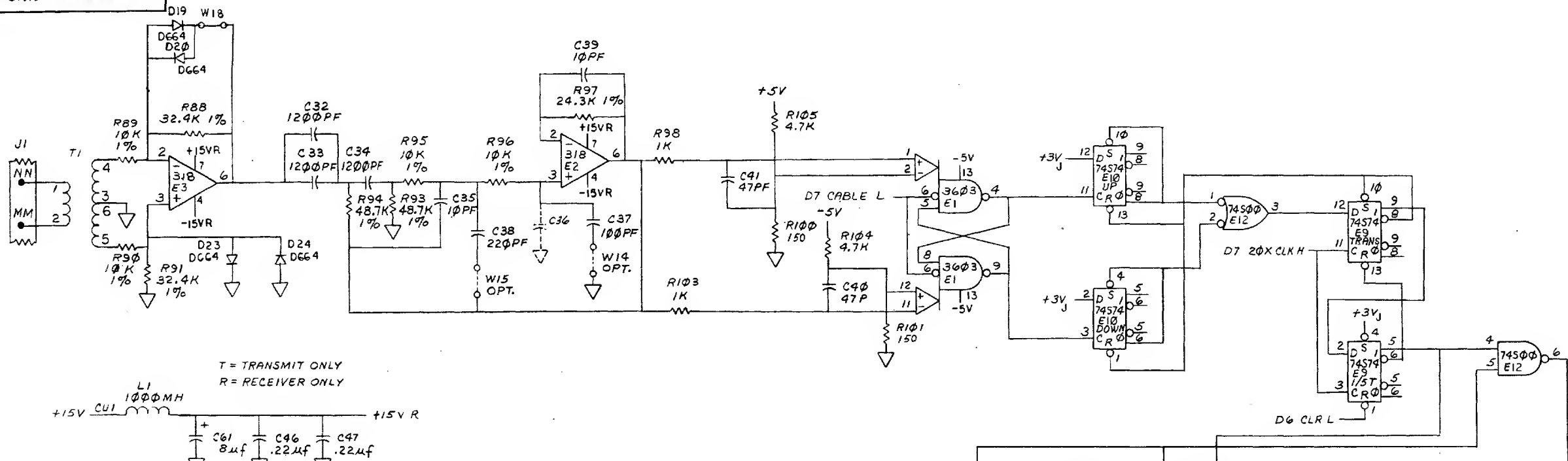
(MODEM INTERFACE DRIVERS)

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

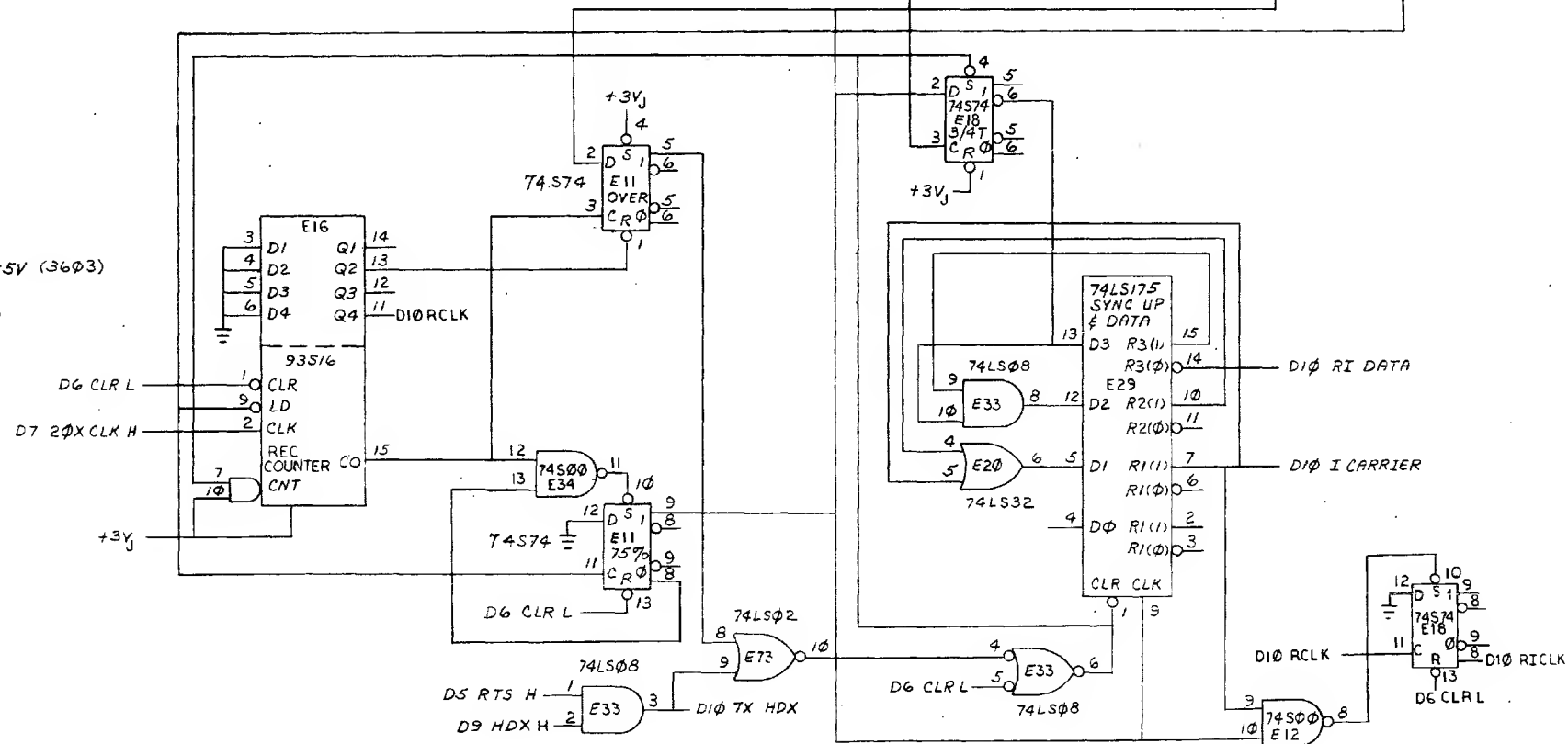
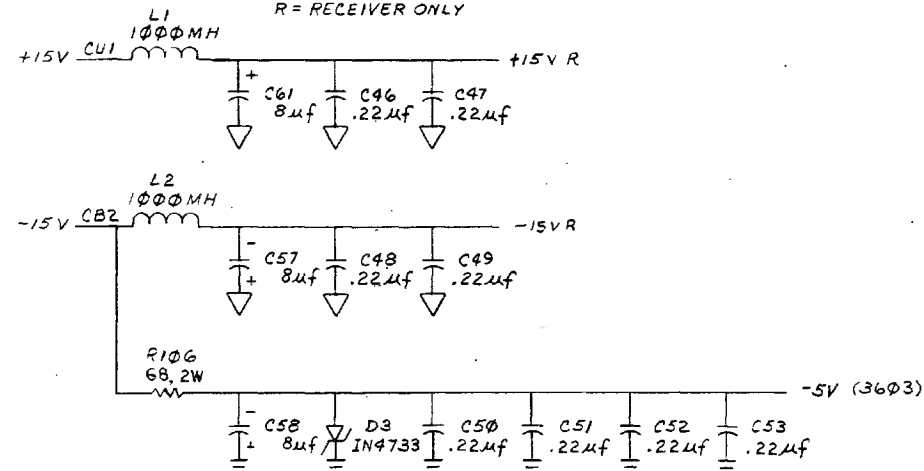
| TITLE                   | SIZE CODE | NUMBER    | REV.  |
|-------------------------|-----------|-----------|-------|
| MULTI DROP LINE UNIT D9 | DCS       | M8203-0-1 | N     |
| SCALE                   | SHEET 11  | OF 15     | DIST. |

1 MK

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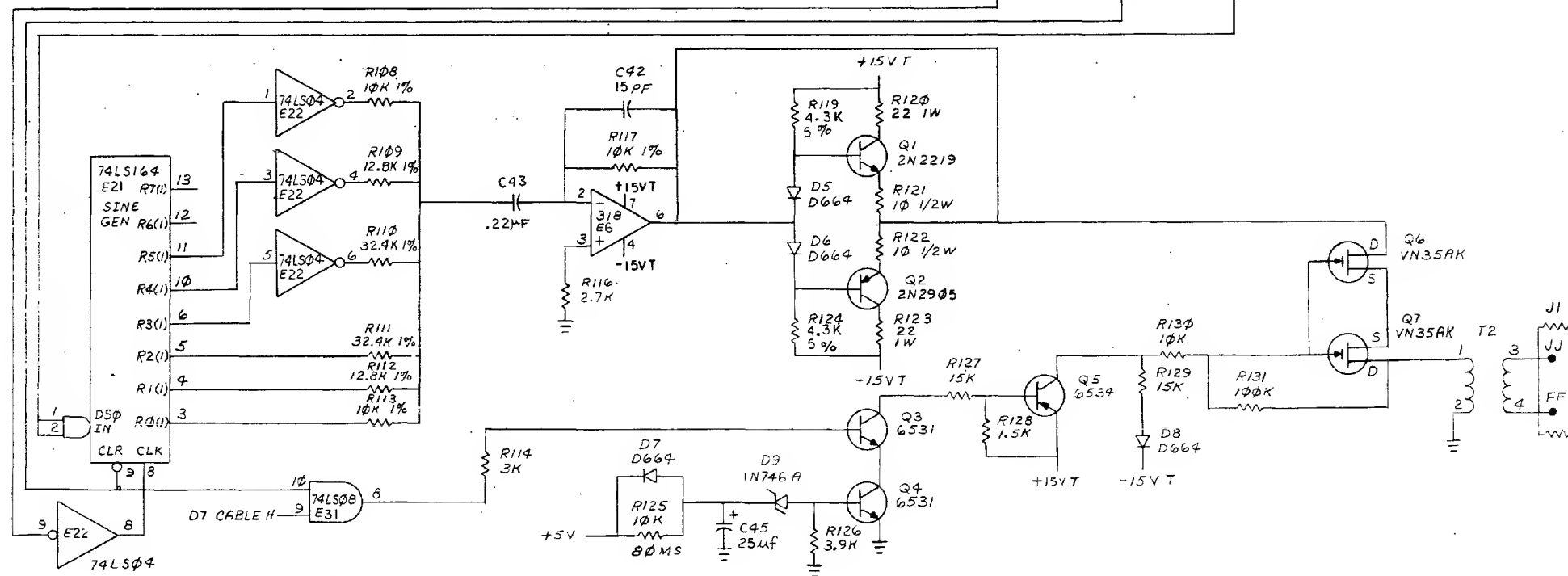
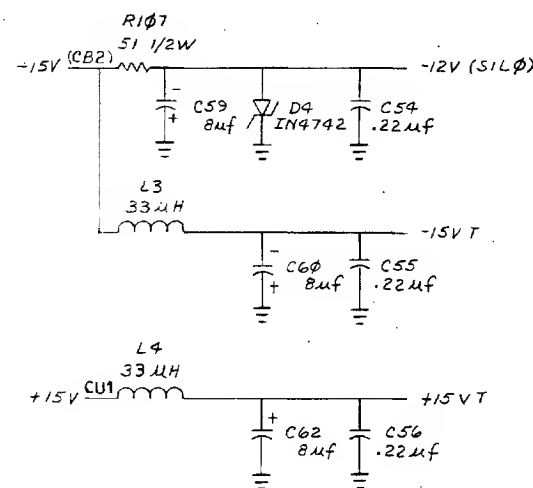
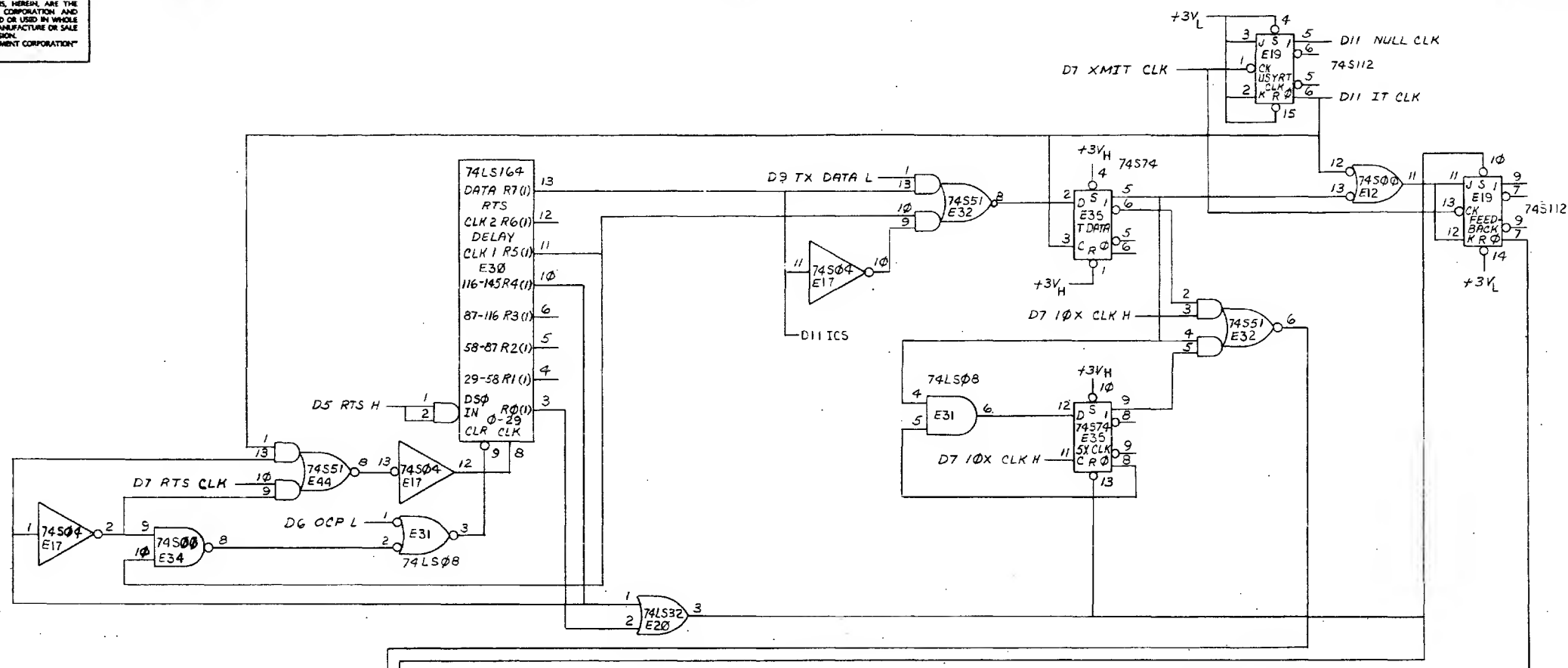
T = TRANSMIT ONLY  
R = RECEIVER ONLY



(INTEGRAL MODEM RECEIVER)

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

|                          |  |          |  |       |      |           |  |  |  |     |
|--------------------------|--|----------|--|-------|------|-----------|--|--|--|-----|
| TITLE                    |  |          |  | SIZE  | CODE | NUMBER    |  |  |  | REV |
| MULTI DROP LINE UNIT D10 |  |          |  | D     | CS   | M8203-0-1 |  |  |  | N   |
| SCALE                    |  | SHEET    |  | DIST. |      |           |  |  |  |     |
| 11                       |  | 12 OF 15 |  |       |      |           |  |  |  |     |



INTEGRAL MODEM TRANSMITTER

REVISIONS

CHK

CHANGE NO.

REV.

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D

C

B

A

| D1         | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 |
|------------|----|----|----|----|----|----|----|----|----|-----|-----|
| BALU 0 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 1 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 2 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 3 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 4 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 5 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 6 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 7 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| B CLEAR L  | 1  |    |    |    | 2  | 5  |    |    |    |     |     |
| BT0 H      | 7  | 3  |    |    |    |    |    |    |    |     |     |
| BT0 L      | 2  |    |    |    |    |    |    |    |    |     |     |
| CROM 0 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| CROM 1 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| CROM 2 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| CROM 3 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| CROM 4 L   | 2  |    |    |    |    |    |    |    |    |     |     |
| CROM 5 L   | 2  |    |    |    |    |    |    |    |    |     |     |
| CROM 6 L   | 2  |    |    |    |    |    |    |    |    |     |     |
| CROM 7 L   | 2  |    |    |    |    |    |    |    |    |     |     |
| CLEAR L    | 3  |    |    |    |    |    |    |    |    |     |     |
| ENI 11 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| ENI 15 L   | 1  | 2  |    |    |    |    |    |    |    |     |     |
| ENI 16 L   | 1  | 2  |    |    |    |    |    |    |    |     |     |
| IBR H      | 1  |    |    |    | 1  |    |    |    |    |     |     |
| IBR L      | 3  |    |    |    |    |    |    |    |    |     |     |
| LU LOOP H  | 1  |    |    |    | 1  |    |    | 1  |    |     |     |
| LUIBUS 0 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 1 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 2 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 3 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 4 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 5 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 6 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| LUIBUS 7 H | 7  | 5  |    |    |    |    |    |    |    |     |     |
| OBW L      | 1  |    | 2  |    |    |    |    |    |    |     |     |
| OUT* L     | 1  |    | 1  |    |    |    |    |    |    |     |     |
| RUN H      | 2  |    |    |    |    |    | 1  |    | 1  |     |     |
| RUN L      | 1  |    |    |    | 1  |    | 1  |    |    |     |     |
| SEL 0 L    | 2  |    |    |    | 1  |    |    |    |    |     |     |
| STEP LU H  | 1  |    |    |    | 1  |    | 1  |    |    |     |     |
| +3VA       | 2  | 4  |    |    |    |    |    |    |    |     |     |
| B CLEAR H  | 2  |    |    |    |    | 1  |    |    |    |     |     |

| D2         | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 |
|------------|----|----|----|----|----|----|----|----|----|-----|-----|
| LDX L      | 1  | 1  |    |    |    |    |    |    |    |     |     |
| SEL 15 L   | 1  | 1  |    |    |    |    |    |    |    |     |     |
| BALU 0 H   |    |    | 3  | 5  |    |    |    |    | 1  |     |     |
| BALU 1 H   |    |    | 3  | 5  |    |    |    |    | 1  |     |     |
| BALU 2 H   |    |    | 3  | 5  |    | 1  |    |    | 1  |     |     |
| BALU 3 H   |    |    | 3  | 5  |    |    |    |    | 1  |     |     |
| BALU 4 H   |    |    | 2  | 5  |    |    |    |    | 1  |     |     |
| BALU 5 H   |    |    | 2  | 6  |    |    |    |    | 1  |     |     |
| BALU 6 H   |    |    | 2  | 6  |    |    |    |    | 1  |     |     |
| BALU 7 H   |    |    | 3  | 6  |    |    |    |    | 1  |     |     |
| CTX ENA H  |    |    | 3  | 1  |    |    |    |    |    |     |     |
| DIP 0 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 1 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 2 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 3 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 4 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 5 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 6 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 7 H    |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| DIP 8 H    |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 9 H    |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 10 H   |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 11 H   |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 12 H   |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 13 H   |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 14 H   |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| DIP 15 H   |    |    | 1  | 2  | 1  |    |    |    |    |     |     |
| EDM H      |    |    | 2  |    |    | 1  |    |    |    |     |     |
| IN RDY H   |    |    | 1  | 1  |    |    |    |    |    |     |     |
| KRTS H     |    |    | 3  |    | 1  |    |    |    |    |     |     |
| LD 12      |    |    | 1  | 1  |    |    |    |    |    |     |     |
| LD 13      |    |    | 1  | 1  |    |    |    |    | 1  |     |     |
| LD 14      |    |    | 1  | 1  |    | 1  |    |    |    |     |     |
| LD 15      |    |    | 1  | 1  | 1  |    |    |    |    |     |     |
| LD 16      |    |    | 1  | 1  |    |    |    |    |    |     |     |
| LD 17      |    |    | 1  | 2  |    |    |    |    |    |     |     |
| LOAD H     |    |    | 2  |    |    | 1  |    |    |    |     |     |
| OC H       |    |    | 1  | 1  |    | 2  | 2  |    |    |     |     |
| OCOR H     |    |    | 1  | 4  |    | 2  |    |    |    |     |     |
| OUT RDY H  |    |    | 1  | 1  |    |    |    |    |    |     |     |
| RTS LOCK H |    |    | 1  | 1  |    |    |    |    |    |     |     |
| SOM H      |    |    | 3  |    |    |    |    |    |    |     |     |
| TX ENA L   |    |    | 1  | 1  |    |    |    |    |    |     |     |

| D4          | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 |
|-------------|----|----|----|----|----|----|----|----|----|-----|-----|
| AX 1 H      | 1  | 1  |    | 1  |    |    |    |    |    |     |     |
| AX 2 H      | 1  | 1  |    | 1  |    | 1  |    |    |    |     |     |
| B POLL      | 1  |    |    | 1  |    |    |    |    |    |     |     |
| DDCMP H     | 1  |    |    | 2  |    |    |    |    |    |     |     |
| DISSI H     | 1  |    |    | 2  |    |    |    |    |    |     |     |
| DISSI L     |    |    | 2  | 1  | 1  |    |    |    |    |     |     |
| EN AX H     | 1  | 1  |    | 1  |    |    |    |    |    |     |     |
| EN CRC 32 H | 1  |    |    | 1  | 2  |    |    |    |    |     |     |
| IC H        | 1  |    |    | 1  |    | 2  |    |    |    |     |     |
| IERR H      |    |    |    | 1  |    |    |    | 1  |    |     |     |
| LD MODE H   |    |    |    | 1  |    | 1  |    |    |    |     |     |
| LULP H      | 1  |    |    | 1  | 1  |    |    | 1  |    |     |     |
| M422 H      |    |    |    | 1  |    |    |    | 1  |    |     |     |
| MINT H      |    |    |    | 1  |    |    |    | 1  |    |     |     |
| MM H        | 1  |    |    | 1  |    |    |    | 1  |    |     |     |
| MO H        |    |    |    | 1  |    |    |    | 1  |    |     |     |
| MV.35 H     |    |    |    | 1  |    |    |    | 1  |    |     |     |
| MYE H       |    |    |    | 1  |    |    |    | 1  |    |     |     |
| RDAX H      | 1  |    |    | 1  |    | 1  |    |    |    |     |     |
| WAX H       | 1  |    |    | 1  |    | 1  |    |    |    |     |     |
| TXUENA H    | 1  |    |    | 1  | 2  |    |    |    |    |     |     |
| TXUENA L    |    |    |    | 1  | 1  |    |    |    |    |     |     |
| ABORT H     | 1  |    |    |    | 1  |    |    |    |    |     |     |
| BCC H       | 1  |    |    |    | 1  |    |    |    |    |     |     |
| CRC 32 BCC  | 1  |    |    |    | 1  |    |    |    |    |     |     |
| DOP 0 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 1 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 2 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 3 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 4 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 5 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 6 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 7 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 8 H     | 1  |    |    |    | 1  |    |    |    |    |     |     |
| DOP 9 H     | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 10 H    | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 11 H    | 1  |    |    |    | 2  |    |    |    |    |     |     |
| DOP 12 H    | 1  |    |    |    | 1  |    |    |    |    |     |     |
| DOP 13 H    | 1  |    |    |    | 1  |    |    |    |    |     |     |
| DOP 14 H    | 1  |    |    |    | 1  |    |    |    |    |     |     |
| DOP 15 H    | 1  |    |    |    | 2  |    |    |    |    |     |     |
| CTS L       |    |    |    |    | 2  |    |    | 1  |    |     |     |
| END BLK H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| ICIR H      | 1  |    |    |    | 3  |    |    |    |    |     |     |
| +3VD        |    |    |    | 3  | 3  | 2  |    |    |    |     |     |
| +3VB        |    |    |    |    | 2  |    |    |    |    |     |     |

| D5 CONT.   | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 |
|------------|----|----|----|----|----|----|----|----|----|-----|-----|
| IN ACT H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| ORDY H     |    |    |    | 1  | 2  |    |    |    |    |     |     |
| OUTACT H   |    |    | 1  |    | 3  |    |    |    |    |     |     |
| OUTACT L   |    |    | 1  |    | 3  | 1  |    |    |    |     |     |
| OVERRUN    | 1  |    |    |    | 1  |    |    |    |    |     |     |
| READ H     |    |    |    |    | 1  | 1  |    |    |    |     |     |
| RTS H      | 2  |    |    |    | 2  |    |    | 2  | 2  | 1   | 2   |
| SILO 0 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 1 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 2 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 3 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 4 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 5 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 6 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SILO 7 H   | 1  |    |    |    | 1  |    |    |    |    |     |     |
| SIN RDY H  |    |    | 1  |    | 1  |    |    |    |    |     |     |
| TX DATA H  | 2  |    |    |    | 1  |    |    | 1  | 2  |     |     |
| TX BMT H   |    |    |    | 2  | 2  |    |    |    |    |     |     |
| UNDERRUN H |    | 1  |    |    | 1  |    |    |    |    |     |     |
| D6 +3VC    |    |    |    |    | 2  |    |    |    |    |     |     |
| A0 H       |    |    |    |    | 1  | 1  |    |    |    |     |     |
| A1 H       |    |    |    |    | 1  | 1  |    |    |    |     |     |
| A2 H       |    |    |    |    | 1  | 1  |    |    |    |     |     |
| BYTE H     |    |    |    |    | 1  | 1  |    |    |    |     |     |
| CLR H      |    |    |    |    | 1  | 3  |    |    |    |     |     |
| CLR L      |    |    |    | 4  | 5  | 1  |    |    |    | 5   |     |
| DPNE H     |    |    |    |    | 1  | 1  |    |    |    |     |     |
| ENAX L     |    |    |    | 2  | 2  |    |    |    |    |     |     |
| EN MODE L  |    |    |    | 2  | 1  |    |    |    |    |     |     |
| ICP H      |    |    |    |    | 1  | 2  |    |    |    |     |     |
| ICP L      |    |    |    |    | 1  | 7  | 1  |    |    |     |     |
| INIT L     |    |    |    | 3  | 1  |    |    |    |    |     |     |
| LAX L      |    |    |    |    | 2  |    |    |    |    |     |     |
| LDAX       | 2  |    |    |    | 1  |    |    |    |    |     |     |
| LDOVR      |    |    |    |    | 1  | 1  |    |    |    |     |     |
| LD SILO    |    |    |    |    | 1  | 1  |    |    |    |     |     |
| OCPL H     |    |    |    |    | 1  | 1  |    |    |    |     |     |
| OCPL L     |    |    |    | 6  | 3  | 1  |    |    |    | 1   |     |
| READY      | 1  |    |    |    | 1  |    |    |    |    |     |     |
| TX BUF L   |    |    | 5  |    | 1  |    |    |    |    |     |     |
| W/R H      |    |    |    |    | 1  | 4  |    |    |    |     |     |
| W/R L      |    |    |    |    | 4  | 1  |    |    |    |     |     |
| CLTX ENA H |    |    | 1  |    | 1  | 1  |    |    |    |     |     |
| +3VH       |    |    |    |    | 1  | 1  | 1  |    |    | 3   |     |
| +3VI       |    |    |    |    | 1  | 4  | 5  |    |    |     |     |
| +3VG       |    |    |    |    | 6  |    |    |    |    |     |     |
| +3VF       |    |    |    |    | 1  | 2  | 1  |    |    |     |     |



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| D7             | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 |
|----------------|----|----|----|----|----|----|----|----|----|-----|-----|
| 1.25M          |    |    |    | 1  |    | 4  | 1  |    |    |     |     |
| 422 H          | 1  |    |    |    |    | 1  |    | 2  |    |     |     |
| 423 L          |    |    |    |    |    | 1  |    | 1  |    |     |     |
| CABLE H        |    |    |    |    |    | 2  |    |    |    | 1   |     |
| CABLE L        |    |    |    |    |    | 1  |    |    | 1  |     |     |
| CS6K H         |    |    |    |    |    | 2  |    |    |    |     |     |
| DISABLE REC    |    |    |    |    |    | 2  |    |    |    |     |     |
| EIA H          | 1  |    |    |    |    | 1  | 1  |    |    |     |     |
| +3VK           |    |    |    |    |    | 7  |    |    |    |     |     |
| INT H          | 1  |    |    |    |    | 2  |    |    |    |     |     |
| INT L          |    |    |    | 1  |    | 1  | 2  |    |    |     |     |
| LO BAUD        |    |    |    |    |    | 6  |    |    |    |     |     |
| MAINT CLK      | 1  |    |    |    |    | 1  | 2  |    |    |     |     |
| MSTR CLK       |    |    |    |    |    | 4  | 1  |    |    |     |     |
|                |    |    |    |    |    | 4  |    |    |    |     |     |
| 20X CLK H      |    |    |    |    |    | 2  |    |    | 3  |     |     |
| RTS CLK        |    |    |    |    |    | 3  |    |    |    | 1   |     |
| TURN OFF 1.25M |    |    |    |    |    | 1  | 1  |    |    |     |     |
| TURN OFF RC L  |    |    |    |    |    | 1  | 1  |    |    |     |     |
| TURN OFF RC H  |    |    |    |    |    | 3  | 1  |    |    |     |     |
| TURN ON 1.25M  |    |    |    |    |    | 1  | 1  |    |    |     |     |
| V.35 H         | 1  |    |    |    |    | 2  |    | 1  |    |     |     |
| V.35 L         |    |    |    |    |    | 1  | 2  |    |    |     |     |
| V.35+EIA H     |    |    |    |    |    | 1  | 1  |    |    |     |     |
| XMIT CLK       |    |    |    |    |    | 1  |    |    |    | 2   |     |
| O H            | 1  |    |    |    |    | 1  |    |    |    |     |     |
| +3VL           |    |    |    |    |    | 4  |    |    |    | 5   |     |
| 10X CLK H      |    |    |    |    |    | 1  |    |    |    | 2   |     |
| D8             |    |    |    |    |    |    |    |    |    |     |     |
| CARRIER H      | 2  |    |    |    |    | 1  | 6  |    |    |     |     |
| CARRIER L      |    |    |    |    |    | 1  | 2  |    |    |     |     |
| CS H           | 1  |    |    | 1  |    |    | 3  |    |    |     |     |
| HDX RD         |    | 1  |    |    |    |    | 1  |    |    |     |     |
| LP BK L        |    |    |    |    |    | 1  | 3  |    |    |     |     |
| MOD RDY H      | 1  |    |    | 1  |    |    | 3  |    |    |     |     |
| RC CLK         |    |    |    | 3  |    |    | 1  |    |    |     |     |
| RC DATA        | 1  |    |    | 3  |    |    | 1  |    |    |     |     |
| RING H         | 1  |    |    |    |    |    | 3  |    |    |     |     |
| SIG Q H        | 2  |    |    |    |    |    | 1  |    |    |     |     |
| SIG R H        | 1  |    |    |    |    |    | 1  |    |    |     |     |
| STBY I H       | 1  |    |    |    |    |    | 1  |    |    |     |     |
| TEST MODE H    | 1  |    |    |    |    |    | 3  |    |    |     |     |
| TX CLK         |    |    |    | 3  |    |    | 4  |    |    |     |     |
| +3VE           |    |    |    |    |    |    | 7  |    |    |     |     |
| +7/10V         |    |    |    |    |    |    | 4  |    |    |     |     |
| -24/10V        |    |    |    |    |    |    | 11 |    |    |     |     |

| D9        | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | D10 | D11 |
|-----------|----|----|----|----|----|----|----|----|----|-----|-----|
| DTR H     | 1  |    |    |    |    |    |    |    | 3  |     |     |
| HDX H     | 1  |    |    |    |    |    |    | 1  | 1  | 1   |     |
| TX DATA L |    |    |    |    |    |    |    |    | 3  |     | 1   |
| D10       |    |    |    |    |    |    |    |    |    |     |     |
| I CARRIER |    |    |    |    |    |    |    | 1  |    | 3   |     |
| +3VJ      |    |    |    |    |    |    |    |    |    | 7   |     |
| RI CLK    |    |    |    |    |    |    |    | 1  |    | 1   |     |
| RI DATA   |    |    |    |    |    |    |    | 1  |    | 1   |     |
| TX HDX    |    |    |    |    |    |    |    | 1  |    | 2   |     |
| RCLK      |    |    |    |    |    |    |    |    |    | 2   |     |
| D11       |    |    |    |    |    |    |    |    |    |     |     |
| ICS       |    |    |    |    |    |    |    | 1  |    | 3   |     |
| ITCLK     |    |    |    |    |    |    |    | 1  |    | 4   |     |
| NULL CLK  |    |    |    |    |    |    |    |    | 3  |     | 1   |

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

| TITLE                | SIZE CODE      | NUMBER    | REV. |
|----------------------|----------------|-----------|------|
| MULTI DROP LINE UNIT | D CS           | M8203-0-1 | N    |
| SCALE                | SHEET 15 OF 15 | DIST.     |      |

REV. N  
NUMBER 3-0-1  
SIZE CODE DCS

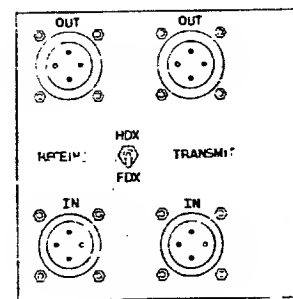
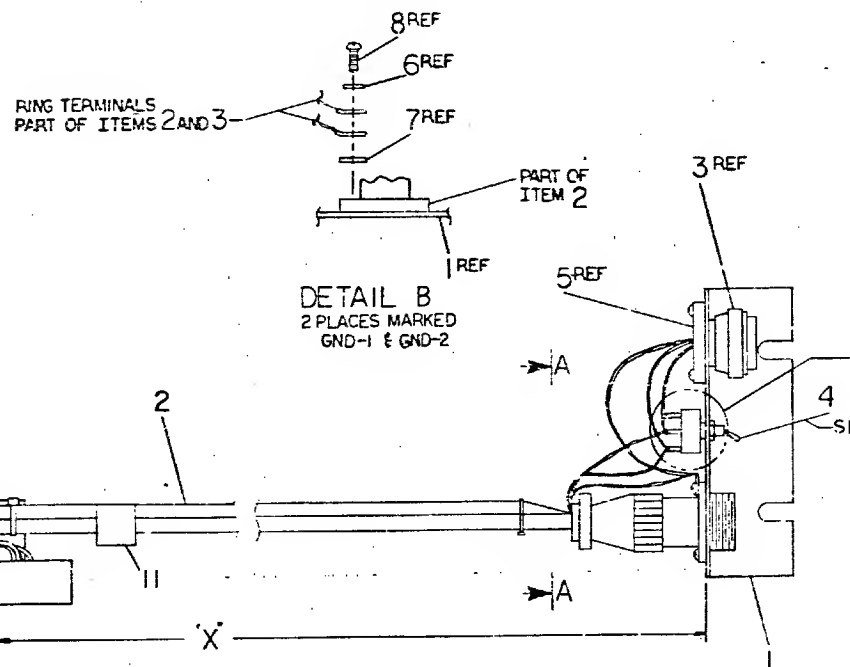
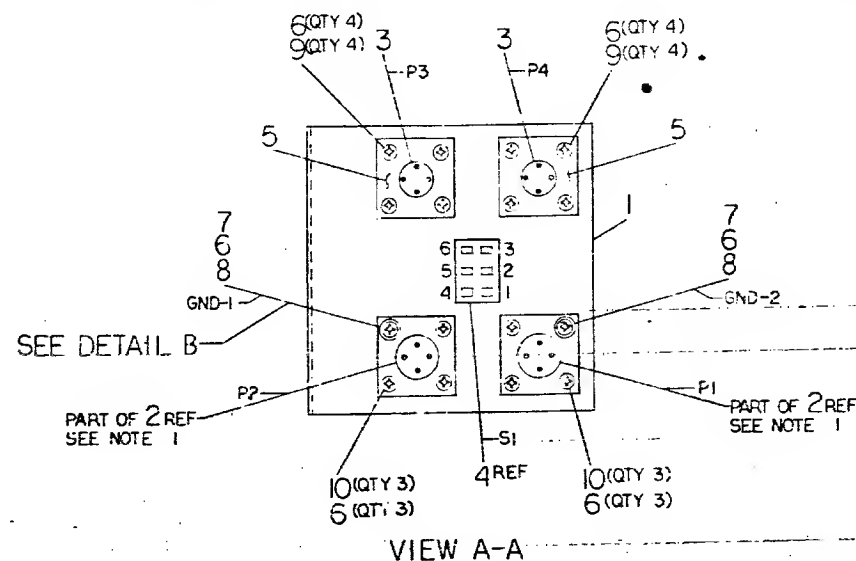
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# WIRE TABLE

| ITEM NO | AWG | COLOR | FROM |      | TO    |       | REMARKS |
|---------|-----|-------|------|------|-------|-------|---------|
|         |     |       | CONN | WITH | CONN  | WITH  |         |
| 2       | 20  | BLU   | P2   |      | SI-2  | SLDR  |         |
| 3       |     | BLU   | P3   |      | SI-2  | SLDR  |         |
| 2       |     | WHT   | P2   |      | SI-5  | SLDR  |         |
| 3       |     | WHT   | P3   |      | SI-5  | SLDR  |         |
| 2       |     | BLK   | P2   |      | GND-1 | 6,7,8 |         |
| 3       |     | BLK   | P3   |      | GND-1 | 6,7,8 |         |
| 2       |     | BLU   | P1   |      | SI-1  | SLDR  |         |
| 3       |     | BLU   | P4   |      | SI-1  | SLDR  |         |
| 2       |     | WHT   | P1   |      | SI-4  | SLDR  |         |
| 3       |     | WHT   | P4   |      | SI-4  | SLDR  |         |
| 2       |     | BLK   | P1   |      | GND-2 | 6,7,8 |         |
| 3       | 20  | BLK   | P4   |      | GND-2 | 6,7,8 |         |

## NOTES:

1. INSTALL P1 END OF MALE HARNESS (ITEM 2) INTO HOLE MARKED P1 ON PANEL (ITEM 1). LIKewise INSTALL P2 END OF HARNESS INTO HOLE MARKED P2 ON PANEL.



| LEGEND   |            |           |          |
|----------|------------|-----------|----------|
| NUMBER   | DIM X      | VARIATION | METRIC   |
| BC55A-10 | 9 FT 10 IN | ± 6 IN    | 3 METERS |

CAUTION: OFF SHEET PARTS LIST REFER TO K-PL-BC55A-0-0

|   |   |   |               |          |
|---|---|---|---------------|----------|
| DESCRIPTION   |   | DWG PART NO                               |               | ITEM NO. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |   |   |               |          |
| ANGLES<br>REF 30°                                   | CLASS OF<br>ACCURACY  | TOLERANCE RANGES IN INCHES                |               |          |
| SURFACE<br>QUALITY IN                               | CHECK ONE: <input type="checkbox"/> MEDIUM <input type="checkbox"/> PREFFERED | 0.001                                     | 0.002         | 0.005    |
|   |   | 0.001                                     | 0.002         | 0.005    |
| QUANTITY & VARIATION                                | QUANTITY  | VARIATION                                 |               |          |
| THIRD ANGLE PROJECTION                              | CHK D. <input checked="" type="checkbox"/>                                    | ENG. <input checked="" type="checkbox"/>  | FIRST US'D ON |          |
| DO NOT SCALE DWG                                    | PROJ. ENG. <input checked="" type="checkbox"/>                                | PROD. <input checked="" type="checkbox"/> | TITLE         |          |
| MATERIAL<br>SEE PARTS LIST                          | FINISH  | SHEET                                     | OF            | DIST     |
| BC55A-10  |   | BC55A-0-0                                 |               | REV A    |
| MK  |   | 1   |               |          |

| REV. | CHANGE NO. | DATE    | BY            | CHK |
|------|------------|---------|---------------|-----|
| 1    | 1          | 11/1/68 | W. J. COLETTI |     |
| 2    | 2          | 11/1/68 | W. J. COLETTI |     |

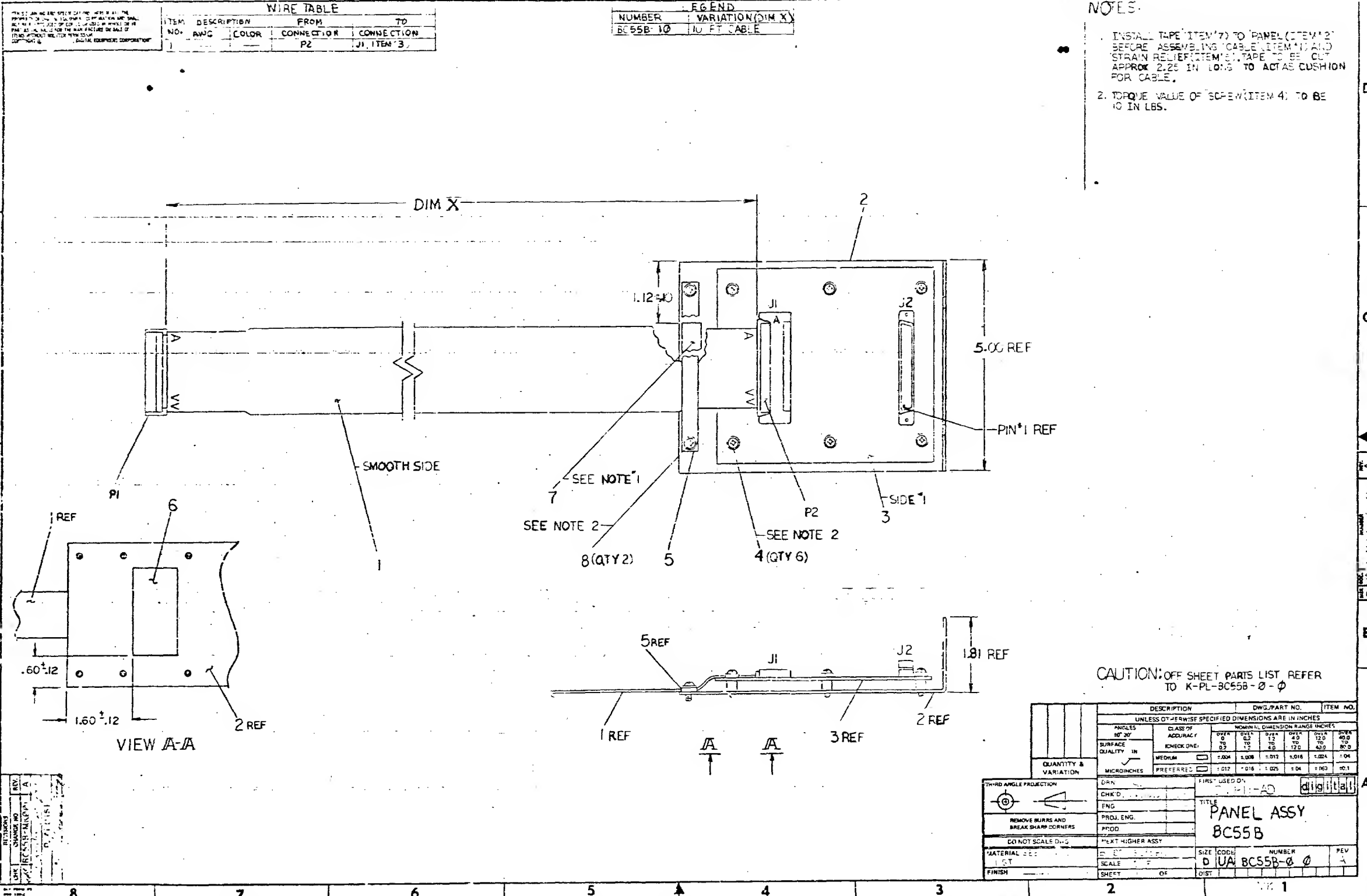
| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER           | DESCRIPTION                        | QUANTITY PER VARIATION |
|------|------|------------------|-----------------------|------------------------------------|------------------------|
|      |      |                  |                       |                                    | 10                     |
| 1    | 1    | D-IA-7421935-0-0 | 7421935-0             | BC55A PANEL                        | 1                      |
| 2    | 2    | D-IA-7017241-0-0 | 7017241-00            | MALE HARNESS FOR BC55A-10          | 1                      |
| 3    | 3    | C-IA-7017242-0-0 | 7017242-00            | FEMALE HARNESS FOR BC55A-10        | 2                      |
| 4    | 4    |                  | <del>1209592-00</del> | SW, TOG 2P SA ON/NONE/ON           | 1                      |
| 5    | 5    |                  | 1216949-00            | CONN, PLUG MOUNT FOR 12-1          | 2                      |
| 6    | 6    |                  | 9006632-00            | WASHER, LOCK, INT, .2600D X .120ID | 16                     |
| 7    | 7    |                  | 9006655-00            | WASHER, FLAT, .312 O.D. X .125 I   | 2                      |
| 8    | 8    |                  | 9006010-01            | SCREW, PAN, PHIL 4-40X 5/16 SS     | 2                      |
| 9    | 9    |                  | 9008301-01            | SCREW, PAN, PHIL 4-40X 1/4 SS      | 8                      |
| 10   | 10   |                  | 9008032-01            | SCREW, PAN, PHIL 4-40X 3/16 SS     | 6                      |
| 11   | 11   |                  | 3616073-00            | LABEL, CABLE IDENTIFICATION        | 1                      |

|                  |             |     |                          |  |                         |  |                      |  |                      |    |           |   |
|------------------|-------------|-----|--------------------------|--|-------------------------|--|----------------------|--|----------------------|----|-----------|---|
| REVISION HISTORY |             |     | BASIC PART NO: BC55A     |  | DRN: M DUGGAN           |  | DATE: 25-SEP-79      |  | DBP D I G I T A L    |    |           |   |
| ENG              | ECO NUMBER  | REV | SECTION A OF A           |  |                         |  |                      |  | TITLE PARTS LIST     |    |           |   |
| ----             | INITIAL     | *   | SECTION. VARIATION INDEX |  | CHK'D: J FALKOWSKI      |  | DATE: 25-SEP-79      |  | BC55A PANEL ASSY     |    |           |   |
| PC               | BC55A-MK001 | A   | [A] 10                   |  | DES. ENG.: P ALOISI     |  | DATE: 25-SEP-79      |  |                      |    |           |   |
|                  |             |     | [B]                      |  | RESP. ENG.: P ALOISI    |  | DATE: 25-SEP-79      |  | DOCUMENT NUMBER      |    |           |   |
|                  |             |     | [C]                      |  |                         |  |                      |  |                      |    |           |   |
|                  |             |     | [D]                      |  |                         |  |                      |  | SIZE CODE NUMBER REV |    |           |   |
|                  |             |     | [E]                      |  | MFG. ENG.: G ARMBRUSTER |  | DATE: 25-SEP-79      |  | K                    | PL | BC55A-0-0 | A |
|                  |             |     | [F]                      |  | ASSEMBLY NUMBER:        |  | TOP DOCUMENT NUMBER: |  | FILE NAME:           |    | EDIT #    |   |
|                  |             |     |                          |  | D-IA-BC55A-0-0          |  | B-DD-BC55A-0-0       |  | MK0261.PLS           |    | 5         |   |

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MK



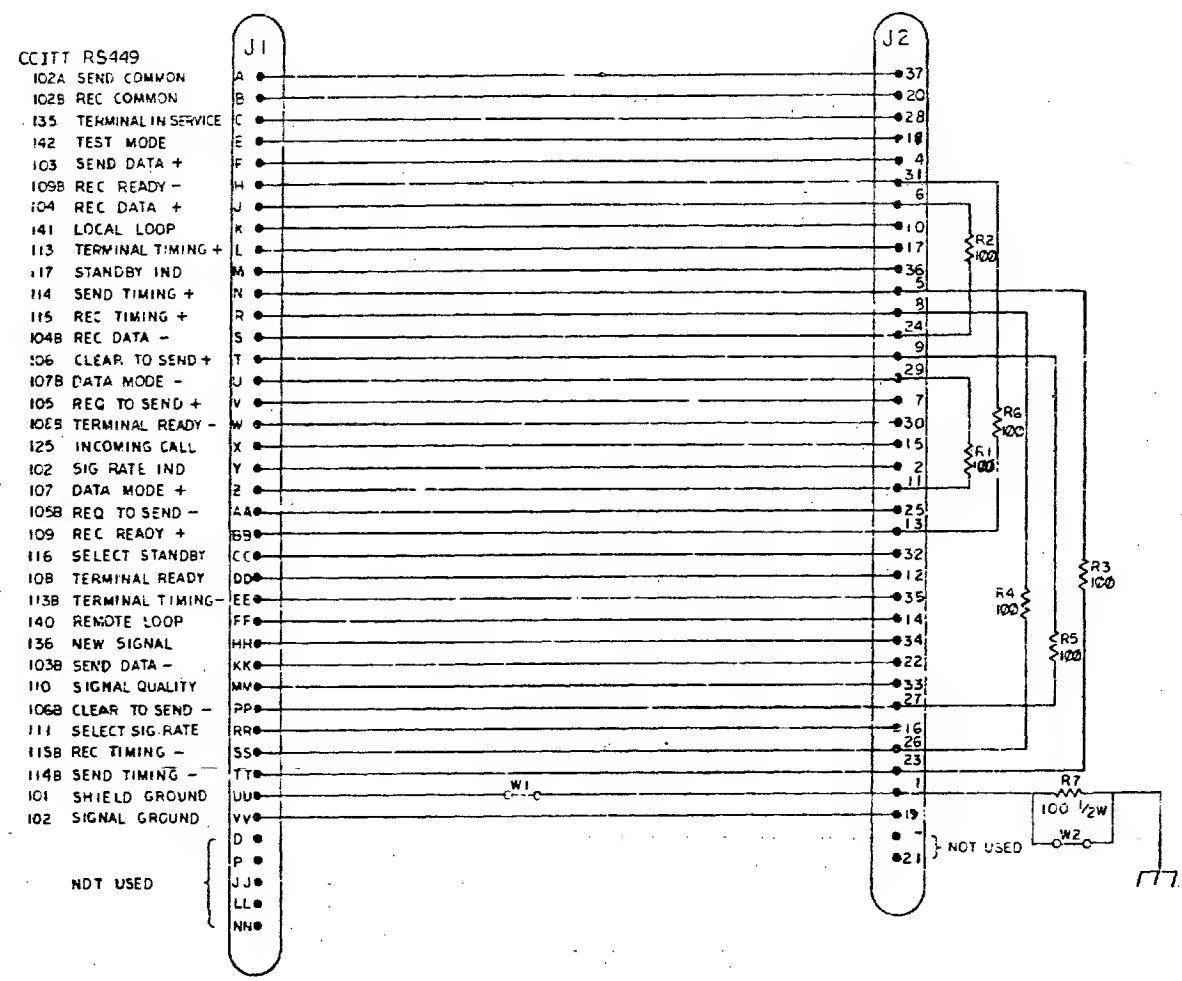
| AUTOMATED IN PROTEST/CLERK |                 |                  |             |                                  | QUANTITY PER VARIATION |  |
|----------------------------|-----------------|------------------|-------------|----------------------------------|------------------------|--|
| LINE ITEM                  | DOCUMENT NUMBER | PART NUMBER      | DESCRIPTION |                                  | 10                     |  |
| 1                          | 1               | D-IA-BC08S-0-0   | BC08S-10    | CABLE 10" DC76                   | 1                      |  |
| 2                          | 2               | D-IA-7421940-0-0 | 7421940-00  | PANEL BC55                       | 1                      |  |
| 3                          | 3               | D-UA-H8B55-0-0   | H8B55-00    | JUMPER BOARD + RS422 CONNECTOR F | 1                      |  |
| 4                          | 4               |                  | 9006453-00  | SCREW, SEMS, SLOTTED HEX HEAD 6- | 6                      |  |
| 5                          | 5               | C-MD-7421941-0-0 | 7421941-00  | STRAIN RELIEF BC55               | 1                      |  |
| 6                          | 6               |                  | 3616073-00  | LABEL, CABLE IDENTIFICATION      | 1                      |  |
| 7                          | 7               |                  | 9007834-00  | TAPE, DOUBLE COATED, 1/2" WIDE,  | A/R                    |  |
| 8                          | 8               |                  | 9010174-00  | SCREW, SEMS, PHILLIPS PAN HD 6-3 | 2                      |  |

| REVISION HISTORY |             |     | BASIC PART NO: BC55B     |  | DRN: G HOVEY           |  | DATE: 21-SEP-79      |  | D I G I T A L     |      |           |     |
|------------------|-------------|-----|--------------------------|--|------------------------|--|----------------------|--|-------------------|------|-----------|-----|
| ENG              | ECO NUMBER  | REV | SECTION A OF A           |  |                        |  |                      |  | TITLE PARTS LIST  |      |           |     |
| ---              | INITIAL     | *   | SECTION. VARIATION INDEX |  | CH'D: J FALKOWSKI      |  | DATE: 21-SEP-79      |  | PANEL ASSY, BC55B |      |           |     |
| PA               | BC55B-MK001 | A   | [A] 10                   |  |                        |  |                      |  |                   |      |           |     |
|                  |             |     | [B]                      |  | DES.ENG.: P ALOISI     |  | DATE: 21-SEP-79      |  |                   |      |           |     |
|                  |             |     | [C]                      |  | RESP.ENG.: P ALOISI    |  | DATE: 21-SEP-79      |  | DOCUMENT NUMBER   |      |           |     |
|                  |             |     | [D]                      |  |                        |  |                      |  | SIZE              | CODE | NUMBER    | REV |
|                  |             |     | [E]                      |  | MFG.ENG.: G ARMBRUSTER |  | DATE: 21-SEP-79      |  | K                 | PL   | BC55B-0-0 | A   |
|                  |             |     | [F]                      |  | ASSEMBLY NUMBER:       |  | TOP DOCUMENT NUMBER: |  | FILE NAME:        |      | EDIT #    |     |
|                  |             |     |                          |  | D-UA-BC55B-0-0         |  | B-DD-BC55B-0-0       |  | BC55B.FLS         |      | 9         |     |

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NOTE:  
 LW1 NORMALLY OUT, W2 NORMALLY IN



| REV | DATE    | BY             | CHKD | APP'D |
|-----|---------|----------------|------|-------|
| 1   | 10/1/64 | W. J. B. (MKT) |      |       |
| 2   | 10/1/64 | W. J. B. (MKT) |      |       |
| 3   | 10/1/64 | W. J. B. (MKT) |      |       |

|                          |                         |                   |
|--------------------------|-------------------------|-------------------|
| DRN: B. J. B. (MKT)      | FIRST USED ON: 2M101-AD | digital           |
| CHK'D: B. J. B. (MKT)    | TITLE: BC55B            |                   |
| ENG: B. J. B. (MKT)      | CONNECTOR MODULE        |                   |
| PRG. ENG: B. J. B. (MKT) |                         |                   |
| PROD: B. J. B. (MKT)     |                         |                   |
| NEXT HIGHER ASSY:        |                         |                   |
| ADD: H8B55-0             | SIZE: CODE: D           | NUMBER: H8B55-0-1 |
| SCALE:                   |                         | REV: *            |
| SHEET: 1 OF 1            |                         |                   |

|   |  |  |  |                                |       |             |       |
|---|--|--|--|--------------------------------|-------|-------------|-------|
|   |  | DESCRIPTION                              |  | DWG/PART NO.                   |       | ITEM NO.    |       |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |  |  |                                |       |             |       |
| ANGLES<br>10° 30'                                   |  | CLASS OF ACCURACY<br>ISO/KC70 ONE:       |  | NOMINAL DIMENSION RANGE INCHES |       |             |       |
| SURFACE<br>QUALITY<br>IN                            |  | MEDIUM <input type="checkbox"/> F 004    |  | OVER 12.0                      | 0.13  | 0.15        | 0.075 |
|   |  |  |  | 12.0                           | 0.15  | 0.175       | 0.09  |
| MICROINCHES   |  | PREFERRED <input type="checkbox"/> F 012 |  | 0.075                          | 0.09  | 0.12        | 0.15  |
|   |  |  |  | 0.15                           | 0.175 | 0.20        | 0.25  |
| QUANTITY & VARIATION                                |  |  |  | F 004                          |       | F 012       | F 015 |
|   |  |  |  | F 017                          |       | F 018       | F 024 |
|   |  |  |  | F 016                          |       | F 025       | F 04  |
|   |  |  |  | F 063                          |       | F 01        |       |
| THIRD ANGLE PROJECTION                              |  | DRN                                      |  | FIRST USED ON                  |       | digital     |       |
|   |  | CHK'D                                    |  | TITLE                          |       | PANEL ASSY. |       |
| REMOVE BURS AND BREAK SHARP CORNERS                 |  | ENG                                      |  | BC55C                          |       |             |       |
| DO NOT SCALE DWG                                    |  | PROJ. ENG.                               |  | SIZE CODE                      |       | NUMBER      |       |
| MATERIAL  |  | F40D.                                    |  | DUA                            |       | BC55C-0 0   |       |
| FINISH  |  | NEXT HIGHER ASSY.                        |  | SCALE                          |       | REV. A      |       |
|   |  |  |  | SHEET                          |       | OF          |       |
|   |  |  |  | DIST                           |       |             |       |

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## LEGEND

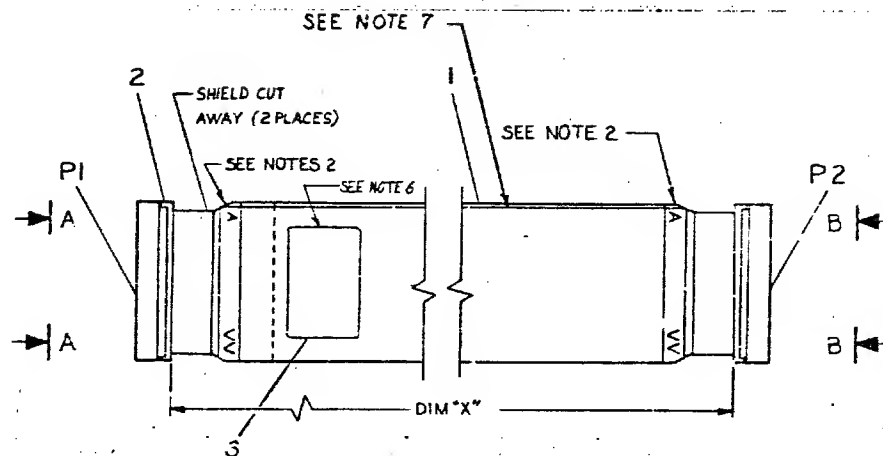
| NUMBER   | DIM."X" VAR       | DIM."Y" REF       |
|----------|-------------------|-------------------|
| BC08S-0L | 12.0 IN ± 0.5 IN  | 11.0 IN ± 0.5 IN  |
| BC08S-0I | 12.0 IN ± 1.0 IN  | 13.0 IN ± 1.0 IN  |
| BC08S-1B | 14.0 IN ± 1.0 IN  | 15.0 IN ± 1.0 IN  |
| BC08S-1K | 21.0 IN ± 1.0 IN  | 22.0 IN ± 1.0 IN  |
| BC08S-22 | 24.0 IN ± 1.0 IN  | 25.0 IN ± 1.0 IN  |
| BC08S-2K | 33.0 IN ± 1.0 IN  | 34.0 IN ± 1.0 IN  |
| BC08S-5L | 70.0 IN ± 2.0 IN  | 71.0 IN ± 2.0 IN  |
| BC08S-07 | 7.0 FT ± 2.0 IN   | 7.0 FT ± 2.0 IN   |
| BC08S-28 | 8.0 FT ± 2.0 IN   | 8.0 FT ± 2.0 IN   |
| BC08S-29 | 9.0 FT ± 2.0 IN   | 9.0 FT ± 2.0 IN   |
| BC08S-10 | 12.0 FT ± 3.0 IN  | 12.0 FT ± 3.0 IN  |
| BC08S-11 | 11.0 FT ± 3.0 IN  | 11.0 FT ± 3.0 IN  |
| BC08S-12 | 12.0 FT ± 3.0 IN  | 12.0 FT ± 3.0 IN  |
| BC08S-13 | 13.0 FT ± 3.0 IN  | 13.0 FT ± 3.0 IN  |
| BC08S-14 | 14.0 FT ± 3.0 IN  | 14.0 FT ± 3.0 IN  |
| BC08S-15 | 15.0 FT ± 3.0 IN  | 15.0 FT ± 3.0 IN  |
| BC08S-16 | 16.0 FT ± 3.0 IN  | 16.0 FT ± 3.0 IN  |
| BC08S-17 | 17.0 FT ± 3.0 IN  | 17.0 FT ± 3.0 IN  |
| BC08S-18 | 18.0 FT ± 3.0 IN  | 18.0 FT ± 3.0 IN  |
| BC08S-19 | 19.0 FT ± 3.0 IN  | 19.0 FT ± 3.0 IN  |
| BC08S-20 | 20.0 FT ± 3.0 IN  | 20.0 FT ± 3.0 IN  |
| BC08S-25 | 25.0 FT ± 3.0 IN  | 25.0 FT ± 3.0 IN  |
| BC08S-30 | 30.0 FT ± 7.2 IN  | 30.0 FT ± 7.2 IN  |
| BC08S-35 | 35.0 FT ± 8.4 IN  | 35.0 FT ± 8.4 IN  |
| BC08S-50 | 50.0 FT ± 12.0 IN | 50.0 FT ± 12.0 IN |

## NOTES:

- CONNECTORS P1 AND P2 ARE TO BE WIRED POINT TO POINT.
- CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE AT EACH END OF CABLE ASSEMBLY.
- MUST BE ASSEMBLED TO PROCESS SPECIFICATION 7606485-0-0.
- INSPECTION AND TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.
- THE NUMBER BC08S MUST BE ON THE CABLE IN CONNECTION WITH CONNECTOR LEGEND IDENTIFICATION.
- ADD ITEM 3 APPROX 4 IN FROM CONNECTOR P1, EITHER I.D. LABEL 3616989-00 OR 3616073-00 MAY BE USED. PLACE ON SMOOTH SIDE OF CABLE.
- IF MARKER STRIP APPLIES ON CABLE, ITEM 1, IT IS TO BE POSITIONED BETWEEN A-A.

BC  
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5  
5  
0

VIEW A-A  
CONN. LEGEND REF



VIEW B-B  
CONN. LEGEND REF

CAUTION OFF SHEET PARTS LIST  
SEE A-PL-BC08S-0-0

| DESCRIPTION            | DWG. PART NO. | ITEM NO. |
|------------------------|---------------|----------|
| 1 LABEL, CABLE I.D.    | 3616989-00    | 1        |
| 2 LABEL, PRODUCED      | 3616989-00    | 2        |
| 3 CONNECTOR, 40 SOCKET | 12H206-00     | 3        |
| 4 CABLE, FLAT 40 COND  | 1700004-00    | 4        |

|   |  |  |  |
|---|--|--|--|
| QUANTITY & VARIATION  |  | THIRD ANGLE PROJECTION   |  |
| <p>REMOVE BURRS AND SHARP CORNERS</p> <p>DO NOT SCALE DWG</p> <p>MATERIAL</p> <p>FINISH</p>   |  | <p>ORNL FERGUSON 5-27-71</p> <p>CHK'D K. CRABBE 15-13-71</p> <p>ENG'D K. CRABBE 15-13-71</p> <p>PROD P. FAZIO 15-21-71</p> <p>NEXT HIGHER ASSY.</p> <p>A-PL-DRP-01-0</p> <p>SCALE NONE</p> <p>SHEET 1 OF 1</p> |  |
| <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>ANGLES: 30° 45° 60° 90° 120° 135° 150° 180°</p> <p>CLASS OF ACCURACY: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p> <p>SURFACE QUALITY: 1.004 1.008 1.012 1.016 1.020 1.024 1.028 1.032 1.036 1.040 1.044 1.048 1.052 1.056 1.060 1.064 1.068 1.072 1.076 1.080 1.084 1.088 1.092 1.096 1.100 1.104 1.108 1.112 1.116 1.120 1.124 1.128 1.132 1.136 1.140 1.144 1.148 1.152 1.156 1.160 1.164 1.168 1.172 1.176 1.180 1.184 1.188 1.192 1.196 1.200 1.204 1.208 1.212 1.216 1.220 1.224 1.228 1.232 1.236 1.240 1.244 1.248 1.252 1.256 1.260 1.264 1.268 1.272 1.276 1.280 1.284 1.288 1.292 1.296 1.300 1.304 1.308 1.312 1.316 1.320 1.324 1.328 1.332 1.336 1.340 1.344 1.348 1.352 1.356 1.360 1.364 1.368 1.372 1.376 1.380 1.384 1.388 1.392 1.396 1.400 1.404 1.408 1.412 1.416 1.420 1.424 1.428 1.432 1.436 1.440 1.444 1.448 1.452 1.456 1.460 1.464 1.468 1.472 1.476 1.480 1.484 1.488 1.492 1.496 1.500 1.504 1.508 1.512 1.516 1.520 1.524 1.528 1.532 1.536 1.540 1.544 1.548 1.552 1.556 1.560 1.564 1.568 1.572 1.576 1.580 1.584 1.588 1.592 1.596 1.600 1.604 1.608 1.612 1.616 1.620 1.624 1.628 1.632 1.636 1.640 1.644 1.648 1.652 1.656 1.660 1.664 1.668 1.672 1.676 1.680 1.684 1.688 1.692 1.696 1.700 1.704 1.708 1.712 1.716 1.720 1.724 1.728 1.732 1.736 1.740 1.744 1.748 1.752 1.756 1.760 1.764 1.768 1.772 1.776 1.780 1.784 1.788 1.792 1.796 1.800 1.804 1.808 1.812 1.816 1.820 1.824 1.828 1.832 1.836 1.840 1.844 1.848 1.852 1.856 1.860 1.864 1.868 1.872 1.876 1.880 1.884 1.888 1.892 1.896 1.900 1.904 1.908 1.912 1.916 1.920 1.924 1.928 1.932 1.936 1.940 1.944 1.948 1.952 1.956 1.960 1.964 1.968 1.972 1.976 1.980 1.984 1.988 1.992 1.996 2.000</p> |  | <p>ITEM NO.</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p>  |  |

| REV. | DATE      | BY            | CHKD | APP'D | DESCRIPTION         |
|------|-----------|---------------|------|-------|---------------------|
| 1    | 14 JUN 75 | W. FISHER     |      |       | REVISED AND REDRAWN |
| 2    | 23 JUN 76 | S. HOLMES     |      |       | REVISED AND REDRAWN |
| 3    | 19 JUL 76 | D. CHASSON    |      |       | REVISED AND REDRAWN |
| 4    | 20 JUL 76 | E. J. NEUMYER |      |       | REVISED AND REDRAWN |
| 5    | 20 JUL 76 | F. DEUMYER    |      |       | REVISED AND REDRAWN |
| 6    | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 7    | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 8    | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 9    | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 10   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 11   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 12   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 13   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 14   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 15   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 16   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 17   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 18   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 19   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 20   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 21   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 22   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 23   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 24   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 25   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 26   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 27   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 28   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 29   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 30   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 31   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 32   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 33   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 34   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 35   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 36   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 37   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 38   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 39   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 40   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 41   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 42   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 43   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 44   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 45   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 46   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 47   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 48   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 49   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |
| 50   | 20 JUL 76 | A. FILZ       |      |       | REVISED AND REDRAWN |

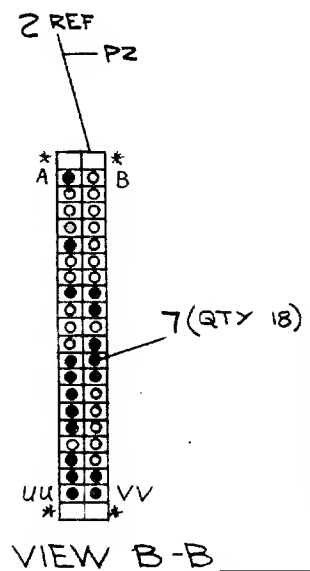
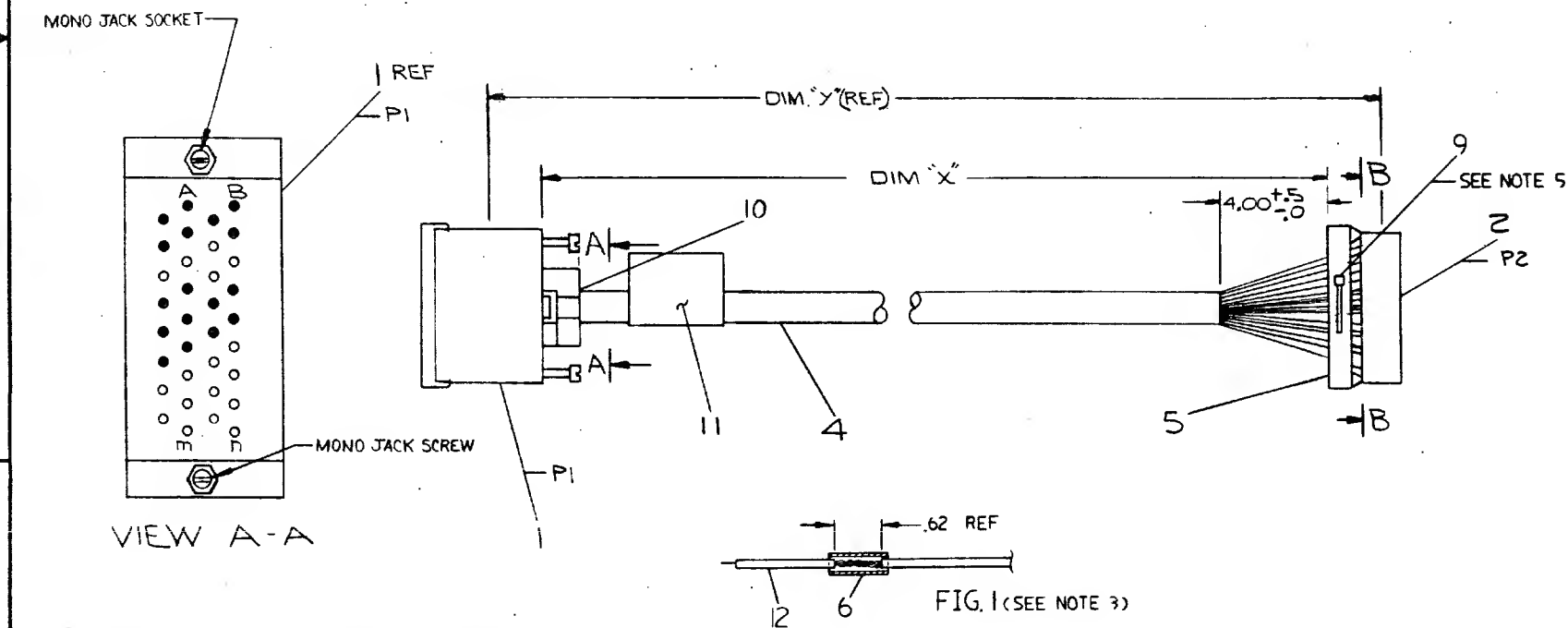


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| WIRE TABLE |                 |       |      |       |            |       |                       |              |
|------------|-----------------|-------|------|-------|------------|-------|-----------------------|--------------|
| ITEM NO    | DESCRIPTION     |       | FROM |       | TO         |       | REMARKS (SIGNAL NAME) | SHIELD COLOR |
|            | AWG             | COLOR | CONN | WITH  | CONN       | WITH  |                       |              |
| 4          | *22 TWP         | RED   | PI-P | 1 & 3 | P2-KK      | 2 & 7 | TX DATA DIFF +        | RED          |
|            |                 | BLK   | PI-S |       | P2-AA      |       | TX DATA DIFF -        |              |
|            |                 | WHT   | PI-R |       | P2-K       |       | RX DATA DIFF +        | RED          |
|            |                 | BLK   | PI-T |       | P2-S       |       | RX DATA DIFF -        |              |
|            |                 | GRN   | PI-Y |       | P2-CC      |       | TX CLOCK DIFF +       | GRN          |
|            |                 | BLK   | PI-Q |       | P2-TT      |       | TX CLOCK DIFF -       |              |
|            |                 | BLU   | PI-V |       | P2-HH      |       | RX CLOCK DIFF +       | BLU          |
|            |                 | BLK   | PI-X |       | P2-SS      |       | RX CLOCK DIFF -       |              |
|            |                 | YEL   | PI-U |       | P2-PP      |       | AUX CLOCK DIFF +      | BLU          |
|            |                 | BLK   | PI-W |       | P2-EE      |       | AUX CLOCK DIFF -      |              |
|            |                 | BRN   | PI-C |       | P2-V       |       | RTS                   | BLU          |
|            |                 | BLK   |      |       | P2-UU      |       | GND                   |              |
|            |                 | ORN   | PI-E |       | P2-Z       |       | DSR                   | BLU          |
|            |                 | BLK   | PI-A |       | P2-A       |       | GND                   |              |
|            |                 | WHT   | PI-H |       | P2-DD      |       | DTR                   | BLU          |
|            |                 | RED   | PI-F |       | P2-BB      |       | CDET                  |              |
|            | *22 TWP         | GRN   | PI-D |       | P2-T       |       | CTS                   | BLU          |
|            |                 | RED   |      |       | P2-VV      | 2 & 7 | GND                   |              |
|            | ALL DRAIN WIRES |       | PI-B | 1 & 3 | SEE NOTE 3 |       | GND                   |              |

| LEGEND   |                   |                      |
|----------|-------------------|----------------------|
| NUMBER   | DIM "X" VARIATION | DIM "Y" (PRECUT) REF |
| BC05Z-25 | 25 FT Ø IN ± 3 IN | 25 FT 2 IN ± 3 IN    |
| BC05Z-50 | 50 FT ± 2%        | 50 FT 2 IN ± 2%      |

- NOTES:
1. STRIP BACK OUTER JACKET TO ALLOW SEPARATION OF WIRES.
  2. STRIP BACK FOIL TAPE.
  3. ON PI END OF CABLE, TWIST DRAIN WIRES FROM ALL PAIRS TOGETHER AND CUT .62 LONG. SOLDER TO .50 IN. EXPOSED LEAD FROM ITEM #12 REF FIG.1. COVER SOLDERED CONNECTION WITH SHRINK TUBING (ITEM #6). CONNECT OTHER END OF ITEM #12 TO ITEM #3.
  4. ALL UNUSED WIRES (NOT CONNECTED TO PI OR P2) TO BE CUT FLUSH WITH OUTER INSULATION OF CABLE.
  5. ASSEMBLE ITEM #9 THRU CENTER HOLES OF ITEM #5 AND POSITION AS SHOWN.



CAUTION: OFF SHEET PARTS LIST EXISTS. REFER TO K-PL-BC05Z-0-0.

| PARTS LIST |                             |            |
|------------|-----------------------------|------------|
| ITEM NO    | DESCRIPTION                 | QTY        |
| 1          | LABEL, CABLE IDENTIFICATION | 3616073-00 |
| 2          | WRAP, TAPE                  | 9007834    |
| 3          | LABEL, CABLE                | 9007834    |
| 4          | RELIEF STRAIN               | 1210089-07 |
| 5          | SOCKET, CRIMP               | 1210089-07 |
| 6          | TUBING, SHRINK              | 9107255-00 |
| 7          | CONN, PIN #22-26 AWG        | 1209029-00 |
| 8          | CONN, 44 POS HSG            | 1210918-15 |
| 9          | CONN ASSY (34 POS)          | 1212109-00 |

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |                  |                  |
|---|------------------|------------------|
| ANGLES  | CLAS OF ACCURACY | CLAS OF ACCURACY |
| 30° 30'   | (CHECK ONE)      | (CHECK ONE)      |
| SURFACE QUALITY                                     | IN               | IN               |
| MEDIUM  | 1.000            | 1.000            |
| PREPARED  | 1.012            | 1.012            |

| THIRD ANGLE PROJECTION               |                  |                   |
|--------------------------------------|------------------|-------------------|
| REMOVE BURRS AND BREAK SHARP CORNERS | DO NOT SCALE DWG | NEXT HIGHER AMBY. |
| MATERIAL SEE PARTS LIST              | SCALE            | SHEET 1 OF 1      |

| FIRST USED ON |                    |                  |
|---------------|--------------------|------------------|
| DMC11-FA      | CABLE, V35/DDS DSU | REV. F           |
| SIZE D        | CODE UA            | NUMBER BC05Z-0-0 |
| DIST.         | MARK               | 1                |

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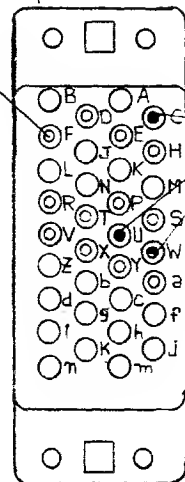
# WIRE TABLE

| ITEM NO | DESCRIPTION |       | FROM  |             |      | TO    |                |      |
|---------|-------------|-------|-------|-------------|------|-------|----------------|------|
|         | AWG         | COLOR | POINT | DESCRIPTION | WITH | POINT | DESCRIPTION    | WITH |
| 2       | 20          | BLK   | PI-U  | AUX CLK +   | 3    | PI-Y  | TX CLK DIFF +  | 6    |
|         |             |       | PI-U  |             |      | PI-V  | RX CLK DIFF +  | 6    |
|         |             |       | PI-W  |             |      | PI-B  | TX CLK DIFF -  | 6    |
|         |             |       | PI-W  | AUX CLK -   | 3    | PI-X  | RX CLK DIFF -  | 6    |
|         |             |       | PI-P  |             |      | PI-R  | RX DATA DIFF + | 6    |
|         |             |       | PI-S  |             |      | PI-T  | RX DATA DIFF - | 6    |
|         |             |       | PI-C  | RTS         | 3    | PI-D  | CTS            | 6    |
|         |             |       | PI-C  |             |      | PI-F  | CDT            | 6    |
|         | 20          | BLK   | PI-H  |             |      | PI-E  | DSR            | 6    |
|         |             |       |       | DTR         | 6    |       |                |      |

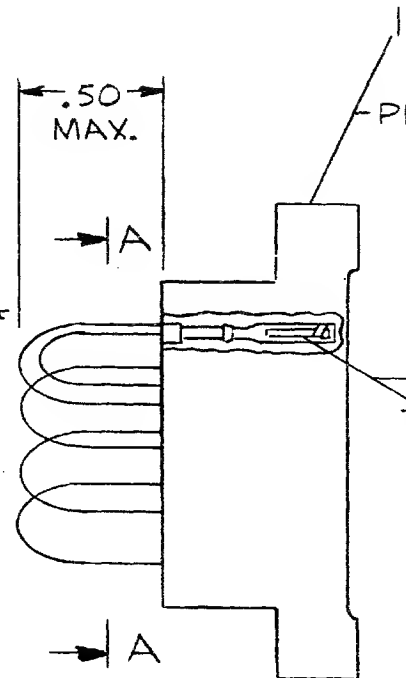
## NOTES:

1. EACH PLANT MAY USE THE VARIATION OF (ITEM # 2) THAT IS OF HIGHEST AVAILABILITY. (I.E. USE THE COLOR YOU HAVE THE MOST OF - AWG IS IMPORTANT, NOT COLOR).
2. CONTACT P.N. 1210290-01 IS TO BE USED WHERE ONLY ONE WIRE IS INSERTED IN THE CONNECTOR. CONTACT P.N. 1210290-00 IS TO BE USED WHERE TWO WIRES ARE INSERTED (I.E. AT PI-C, PI-U, AND PI-W)

REF  
PI  
6 REF

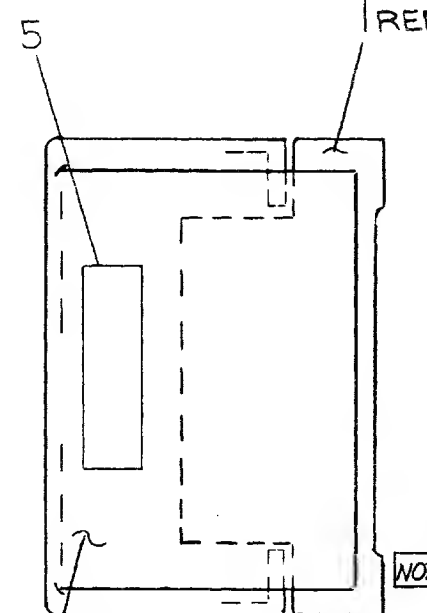


VIEW A-A  
REAR VIEW  
HOOD (ITEM #4)  
REMOVED



SIDE VIEW  
HOOD (ITEM #4)  
REMOVED

SEE NOTE #2  
3 (QTY 3)  
6 (QTY 12)



| NOTE #  | QTY | DESCRIPTION              | DWG./PART NO. | ITEM NO. |
|---------|-----|--------------------------|---------------|----------|
|         |     |                          |               |          |
| NOTE #2 | 12  | SOCKET, CONTACT (20 AWG) | 1210290-01    | 6        |
|         | 1   | LABEL                    | 9008473       | 5        |
|         | 1   | HOOD                     | 1213032-0-0   | 4        |
| NOTE #2 | 3   | SOCKET, CONTACT (14 AWG) | 1210290-00    | 3        |
| NOTE #1 | AVR | WIRE #20 AWG, BLK        | 9107460-00    | 2        |
|         | 1   | CONNECTOR BODY 34 PIN    | 1213033-0-0   | 1        |

|                                    |       |   |                                     |                                |                          |                          |                           |                            |                            |
|------------------------------------|-------|---|-------------------------------------|--------------------------------|--------------------------|--------------------------|---------------------------|----------------------------|----------------------------|
|                                    |       | DESCRIPTION   |                                     |                                |                          | DWG./PART NO.            |                           | ITEM NO.                   |                            |
|                                    |       | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |                                     |                                |                          |                          |                           |                            |                            |
|                                    |       | ANGLES<br>±0° 30'                                   | CLASS OF<br>ACCURACY<br>(CHECK ONE) | NOMINAL DIMENSION RANGE INCHES |                          |                          |                           |                            |                            |
|                                    |       |   |                                     | OVER<br>0<br>TO<br>0.2         | OVER<br>0.2<br>TO<br>1.2 | OVER<br>1.2<br>TO<br>4.0 | OVER<br>4.0<br>TO<br>12.0 | OVER<br>12.0<br>TO<br>40.0 | OVER<br>40.0<br>TO<br>80.0 |
|                                    |       | SURFACE<br>QUALITY IN<br>MICROINCHES                | MEDIUM <input type="checkbox"/>     | ±.004                          | ±.008                    | ±.012                    | ±.016                     | ±.024                      | ±.04                       |
| PREFERRED <input type="checkbox"/> | ±.012 |   | ±.016                               | ±.025                          | ±.04                     | ±.063                    | ±.1                       |                            |                            |
| QUANTITY &<br>VARIATION            |       |   |                                     |                                |                          |                          |                           |                            |                            |

|   |  |                 |  |
|---|--|-----------------|--|
| THIRD ANGLE PROJECTION                  |  | FIRST USED ON   |  |
| REMOVE BURRS AND<br>BREAK SHARP CORNERS |  | DMC11-FA        |  |
| DO NOT SCALE DWG                        |  | TITLE           |  |
| MATERIAL<br>SEE PARTS LIST              |  | CONNECTOR, TEST |  |
| FINISH                                  |  | V.35/DDS        |  |
| SCALE NONE                              |  | SIZE CODE       |  |
| SHEET 1 OF 1                            |  | C IA            |  |
|   |  | NUMBER          |  |
|   |  | H3250-0-0       |  |
|   |  | REV.            |  |
|   |  | B               |  |

| REVISIONS |                | REV.       |  |
|-----------|----------------|------------|--|
| CHK       | CHANGE NO.     |            |  |
|           | H3250-00001    | A          |  |
|           | Q. Chaoon      | 15 July 77 |  |
|           | P. Aloisi      |            |  |
|           | Paul J. Aloisi | 26 Jul-77  |  |
|           | H3250-00002    | B          |  |
|           | S. Chaoon      | 13 Feb 78  |  |
|           | R. Harrington  |            |  |
|           | R. Harrington  | 15 Feb 78  |  |



| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                   | QTY PER VARIATION<br>00 | REFERENCE DESIGNATOR |
|------|------|------------------|-------------|-------------------------------|-------------------------|----------------------|
| 1    | 1    | D-MD-5013909-0-0 | 5013909-00  | ETCH BRD FOR H3251            | 1                       |                      |
| 2    | 2    |                  | 1216296-00  | CONN'D SUB 37PIN SOCKET,CRIMP | 1                       | J1                   |

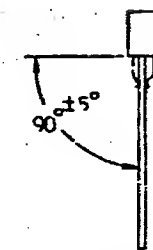
|                  |            |                      |                         |                      |                      |                      |      |           |     |
|------------------|------------|----------------------|-------------------------|----------------------|----------------------|----------------------|------|-----------|-----|
| REVISION HISTORY |            | BASIC PART NO: H3251 |                         | DRN: B.FRASER        | DATE: 21-MAR-79      | D I G I T A L        |      |           |     |
| ENG              | ECO NUMBER | REV                  | SECTION A OF A          | CHK'D: J.FALKOWSKI   | DATE: 21-MAR-79      | TITLE PARTS LIST     |      |           |     |
| PA               | MK001      | A                    | SECTION.VARIATION INDEX | DES.ENG: P.ALOISI    | DATE: 21-MAR-79      | RS422 TEST CONNECTOR |      |           |     |
|                  |            |                      | [A] 00                  | RESP.ENG.: P.ALOISI  | DATE: 4-DEC-80       | DOCUMENT NUMBER      |      |           |     |
|                  |            |                      | [B]                     | MFG.ENG.: BOR MULLIN | DATE: 16-JUN-80      | SIZE                 | CODE | NUMBER    | REV |
|                  |            |                      | [C]                     | ASSEMBLY NUMBER:     | DATE: 16-JUN-80      | K                    | PL   | H3251-0-0 | A   |
|                  |            |                      | [D]                     | D-UA-H3251-0-0       | TOP DOCUMENT NUMBER: | FILE NAME:           |      | EDIT #    |     |
|                  |            |                      | [E]                     |                      | B-DD-H3251-0-0       | MK0111.PLS           |      | 1         |     |
|                  |            |                      | [F]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [G]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [H]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [I]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [J]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [K]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [L]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [M]                     |                      |                      |                      |      |           |     |
|                  |            |                      | [N]                     |                      |                      |                      |      |           |     |

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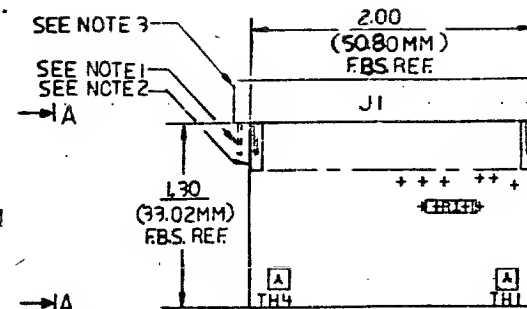
MK

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COMPONENT SIDE VIEW



VIEW A-A



NOTES:

1. PREWORK CONNECTOR TO REMOVE FOUR (4) PINS - TWO (2) AT EACH END OF THE CONNECTOR PRIOR TO ASSEMBLY TO THE BOARD.
2. OUTER FINGERS MAY BE CUT IN SHEARING PROCESS.

STEP 1 → Y AXIS 1.1 STEP 2 TIMES  
REPEAT → X AXIS 1.1 STEP 2 TIMES

NOTES CONT:

3. SOLDER J1 TO PC BOARD

ETCH REV. 8-P2

|                                 |            |               |   |
|---------------------------------|------------|---------------|---|
| SIGNATURES                      |            | DATE          | digital                                   |
| DRN                             | CHK'D      | DATE          |   |
| MECH. ENG.                      | PROJ. ENG. | PROD. BILLING | TITLE M8203<br>TEST CONNECTOR J1          |
| SCALE 2/1                       | SHY        | OF 1          |   |
| NEXT HIGHER ASSY. P.C.D-H3254-0 |            |               | SIZE CODE NUMBER REV<br>0 10A H3254-0-0 A |

M.K 1 WO#3015

| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                        | QTY PER VARIATION<br>00 | REFERENCE DESIGNATOR |
|------|------|------------------|-------------|------------------------------------|-------------------------|----------------------|
| 1    | 1    | D-MD-5013900-0-0 | 5013900-00  | M8203 TEST CONNECTOR               | 1                       |                      |
| 2    | 2    |                  | 1215563-00  | RECEPTACLE, PC BOARD EDGE MOUNT, 4 | 1                       | J1                   |
| 3    | 3    |                  | 1302379-00  | 75.0 .25 W 5.0 Z CC                | 1                       | R1                   |

|                  |              |     |                         |  |                        |  |                      |  |                         |      |            |     |
|------------------|--------------|-----|-------------------------|--|------------------------|--|----------------------|--|-------------------------|------|------------|-----|
| REVISION HISTORY |              |     | BASIC PART NO: H3254    |  | DFN: J. WHITNEY        |  | DATE: 21-MAR-79      |  | D I G I T A L           |      |            |     |
| ENG              | ECO NUMBER   | REV | SECTION A OF A          |  | CHK'D: B.KOPPENAL      |  | DATE: 21-MAR-79      |  | TITLE                   |      | PARTS LIST |     |
| PA               | H3254-MK001A | A   | SECTION VARIATION INDEX |  | DES.ENG: PAUL ALOISI   |  | DATE: 21-MAR-79      |  | M8203 TEST CONNECTOR J1 |      |            |     |
|                  |              |     | [A] 00                  |  | RESP.ENG.: PAUL ALOISI |  | DATE: 12-SEP-80      |  | DOCUMENT NUMBER         |      |            |     |
|                  |              |     | [B]                     |  | MFG.ENG.: BOB O. ONNEI |  | DATE: 12-SEP-80      |  | SIZE                    | CODE | NUMBER     | REV |
|                  |              |     | [C]                     |  | ASSEMBLY NUMBER:       |  | TOP DOCUMENT NUMBER: |  | FILE NAME:              |      | EDIT #     |     |
|                  |              |     | [D]                     |  | D-UA-H3254-0-0         |  | #B-DD-H3254-0        |  | MK0201.PLS              |      | 4          |     |
|                  |              |     | [E]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [F]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [G]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [H]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [I]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [J]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [K]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [L]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [M]                     |  |                        |  |                      |  |                         |      |            |     |
|                  |              |     | [N]                     |  |                        |  |                      |  |                         |      |            |     |

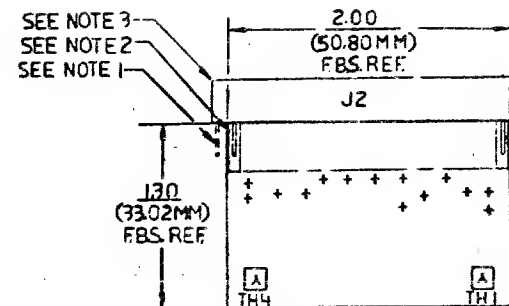
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NOTES:  
1. REWORK CONNECTOR TO REMOVE FOUR (4) PINS - TWO (2) AT EACH END OF CONNECTOR PRIOR TO ASSEMBLY TO BOARD.  
2. OUTER FINGERS MAY BE CUT IN SHEARING PROCESS.  
STEP 1 → Y AXIS 1.14 STEP 2 TIMES  
REPEAT → X AXIS 2.14 STEP 2 TIMES

| CHANGE NO. | REV. | DATE    | BY | CHKD. |
|------------|------|---------|----|-------|
| 1          | 1    | 7/10/72 | JK | B     |

NOTES CONT.  
3. SOLDER J2 TO PC BOARD

|               |
|---------------|
| ETCH REV. C-1 |
|---------------|



| SIGNATURES                    | DATE    | TITLE   |
|-------------------------------|---------|---------|
| DAN. B. [Signature]           | 7/10/72 | digital |
| CHK'D. [Signature]            | 7/10/72 |         |
| MECH. ENG. [Signature]        | 7/10/72 |         |
| PROD. ENG. [Signature]        | 7/10/72 |         |
| SCALE 2/1                     | 1 OF 1  |         |
| SHT. 1                        |         |         |
| NEXT HIGHER ASSY. 7.00-4255-0 |         |         |

TITLE M8203  
TEST CONNECTOR J2  
SIZE CODE NUMBER  
0 U A H3255-0-0  
REV. B

| LINE | ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION<br>00 | REFERENCE DESIGNATOR |
|------|------|------------------|-------------|----------------------------------|-------------------------|----------------------|
| 1    | 1    | D-MD-5013901-0-0 | 5013901-00  | M8203 TEST CONNECTOR             | 1                       |                      |
| 2    | 2    |                  | 1215563-00  | RECEPTACLE,PC BOARD EDGE MOUNT,4 | 1                       | J2                   |

| REVISION HISTORY |             |     | BASIC PART NO: H3255    |  | DRN: J. WHITNEY           |  | DATE: 21-MAR-79      |  | D I G I T A L           |  |  |  |
|------------------|-------------|-----|-------------------------|--|---------------------------|--|----------------------|--|-------------------------|--|--|--|
| ENG              | ECO NUMBER  | REV | SECTION A OF A          |  |                           |  |                      |  | TITLE PARTS LIST        |  |  |  |
| PA               | INITIAL     | A   | SECTION VARIATION INDEX |  | CHK'D: E. KOPPENAL        |  | DATE: 21-MAR-79      |  | M8203 TEST CONNECTOR J2 |  |  |  |
| PA               | H3255-MK001 | B   | [A] 00                  |  |                           |  |                      |  |                         |  |  |  |
|                  |             |     | [B]                     |  |                           |  |                      |  |                         |  |  |  |
|                  |             |     | [C]                     |  | DES.ENG: P. ALOISI        |  | DATE: 12-SEP-80      |  |                         |  |  |  |
|                  |             |     | [D]                     |  |                           |  |                      |  |                         |  |  |  |
|                  |             |     | [E]                     |  | <i>P. Aloisi</i>          |  |                      |  | DOCUMENT NUMBER         |  |  |  |
|                  |             |     | [F]                     |  | RESP.ENG.: P. ALOISI      |  | DATE: 09-FEB-81      |  |                         |  |  |  |
|                  |             |     | [G]                     |  |                           |  |                      |  |                         |  |  |  |
|                  |             |     | [H]                     |  |                           |  |                      |  |                         |  |  |  |
|                  |             |     | [J]                     |  | <i>Bill Brock for POC</i> |  |                      |  |                         |  |  |  |
|                  |             |     | [K]                     |  | MFG.ENG.: B. O CONNELL    |  | DATE: 12-SEP-80      |  | K PL H3255-0-0          |  |  |  |
|                  |             |     | [L]                     |  |                           |  |                      |  |                         |  |  |  |
|                  |             |     | [M]                     |  | ASSEMBLY NUMBER:          |  | TOP DOCUMENT NUMBER: |  | FILE NAME:              |  |  |  |
|                  |             |     | [N]                     |  | D-UA-H3255-0-0            |  | H3255-0              |  | MK0348.PLS              |  |  |  |
|                  |             |     |                         |  |                           |  |                      |  | EDIT #                  |  |  |  |
|                  |             |     |                         |  |                           |  |                      |  | 3                       |  |  |  |

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MK



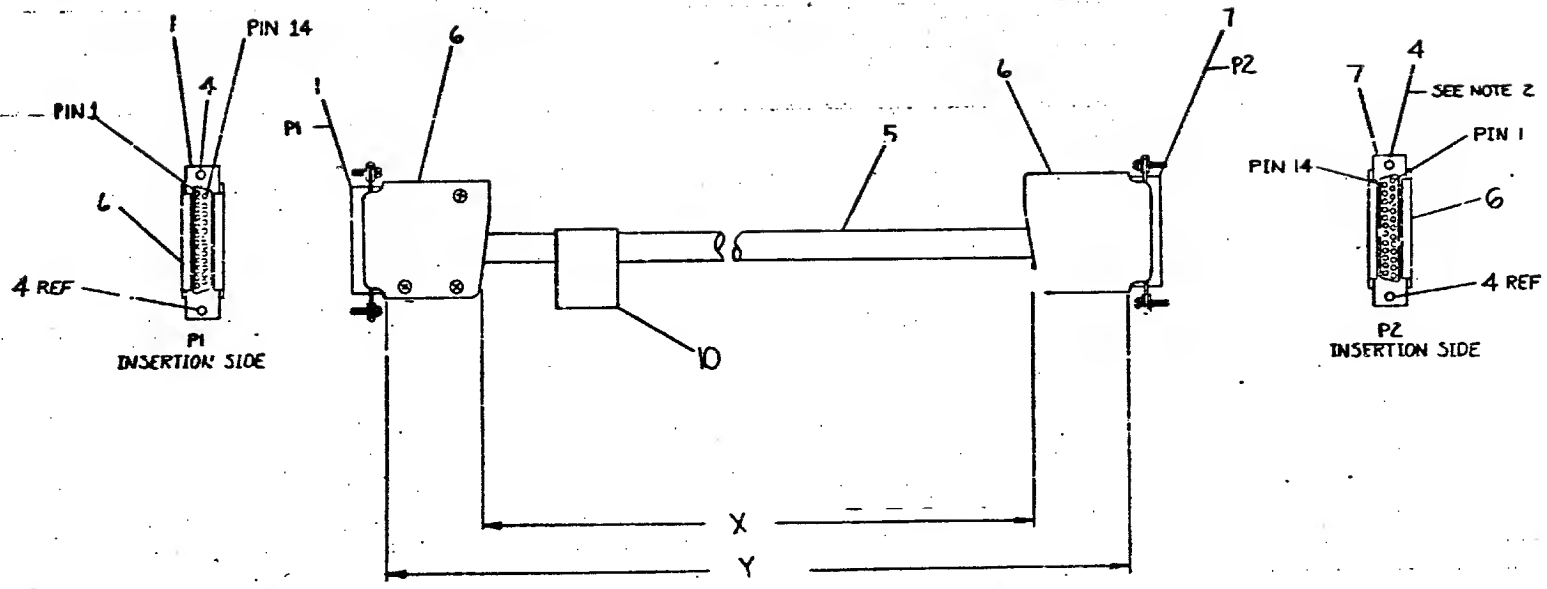
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| WIRE TABLE |             |         |       |         |       |      |
|------------|-------------|---------|-------|---------|-------|------|
| ITEM NO.   | DESCRIPTION | FROM    | TO    | REMARKS |       |      |
| NO.        | ANG         | COLOR   | CONN  | WITH    | CONN  | WITH |
| 5          | 26          | BU WHT  | P1-1  | 3       | P2-1  | 9    |
|            |             | BAKE    | -1    | 3       | -1    | 9    |
|            |             | BAKE    | -1    | 3       | -1    | 9    |
|            |             | GRAY    | -2    | 2       | -2    | 8    |
|            |             | GRY/SPN | -3    |         | -3    |      |
|            |             | WHT/BLU | -4    |         | -4    |      |
|            |             | GRN/WHT | -5    |         | -5    |      |
|            |             | WHT/GRN | -6    |         | -6    |      |
|            |             | GRN/WHT | -7    |         | -7    |      |
|            |             | WHT/GRN | -8    |         | -8    |      |
|            |             | GRN/WHT | -9    |         | -9    |      |
|            |             | WHT/GRN | -10   |         | -10   |      |
|            |             | GRN/WHT | -11   |         | -11   |      |
|            |             | WHT/GRN | -12   |         | -12   |      |
| 5          | 26          | BU/PSD  | P1-13 | 2       | P2-13 | 8    |

| WIRE TABLE |             |         |       |         |       |      |
|------------|-------------|---------|-------|---------|-------|------|
| ITEM NO.   | DESCRIPTION | FROM    | TO    | REMARKS |       |      |
| NO.        | ANG         | COLOR   | CONN  | WITH    | CONN  | WITH |
| 5          | 26          | RED/BLU | P1-14 | 2       | P2-14 | 8    |
|            |             | GRY/RED | -15   |         | -15   |      |
|            |             | RED/GRS | -16   |         | -16   |      |
|            |             | BRN/RED | -17   |         | -17   |      |
|            |             | RED/BRN | -18   |         | -18   |      |
|            |             | GRY/RED | -19   |         | -19   |      |
|            |             | GRY/GRY | -20   |         | -20   |      |
|            |             | BLU/BLK | -21   |         | -21   |      |
|            |             | BLU/BLU | -22   |         | -22   |      |
|            |             | GRY/BLK | -23   |         | -23   |      |
|            |             | GRY/GRN | -24   |         | -24   |      |
| 5          | 26          | GRY/BLK | P1-25 | 2       | P2-25 | 8    |

| LEGEND   |           |           |     |
|----------|-----------|-----------|-----|
| NUMBER   | X" DIA    | W/RECUT   | REF |
| BC05D-10 | 3FT±2IN   | 10FT 3IN  |     |
| BC05D-25 | 25FT±3IN  | 25FT 3IN  |     |
| BC05D-50 | 50FT±2IN  | 50FT 3IN  |     |
| BC05D-36 | 6FT±2IN   | 3FT 3IN   |     |
| BC05D-15 | 5FT±3IN   | 15FT 3IN  |     |
| BC05D-22 | 20FT±3IN  | 20FT 3IN  |     |
| BC05D-72 | 70FT±2IN  | 70FT 3IN  |     |
| BC05D-75 | 75FT±2IN  | 75FT 3IN  |     |
| BC05D-92 | 90FT±2IN  | 90FT 3IN  |     |
| BC05D-A3 | 100FT±2IN | 100FT 3IN |     |
| BC05D-A7 | 170FT±2IN | 170FT 3IN |     |

NOTES:  
 1. ITEM '3' AND ITEM '9' REQUIRE THAT 3 WIRES BE SOLDERED INTO EACH OF THE CONTACTS.  
 2. MALE SCREW RETAINER MOUNTED HE-2.



CAUTION: OFF SHEET PARTS LIST EXISTS. REFER TO K-PL-BC05D-0-0.

| QTY | DESCRIPTION            | QTY        | PART NO. | REV |
|-----|------------------------|------------|----------|-----|
| 1   | CABLE LABEL            | 36.6073-00 | 10       |     |
| 1   | SOCKET CONTACT         | 1215743-25 | 7        |     |
| 24  | SOCKET 24-28 AWG       | 1210493-45 | 8        |     |
| 1   | SHELL & INSERT, FEMALE | 1210493-32 | 7        |     |
| 2   | HOOD                   | 1210493-50 | 6        |     |
| 1   | CABLE, MOHAWK 25 CON   | 9107736-00 | 5        |     |
| 2   | MALE SCREW RETAINER    | 1210493-51 | 4        |     |
| 1   | PIN CONTACT            | 1215241-00 | 3        |     |
| 24  | 24-28 AWG              | 1210493-43 | 2        |     |
| 1   | SHELL & INSERT, MALE   | 1210493-31 | 1        |     |

| REV | DATE     | BY        | CHKD | APP'D | DESCRIPTION         |
|-----|----------|-----------|------|-------|---------------------|
| 1   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 2   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 3   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 4   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 5   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 6   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 7   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |
| 8   | 10/01/03 | W. DUNHAM |      |       | REVISED FOR DRAWING |

THIRD ANGLE PROJECTION

IMPROVE BLADES AND BREAK SHARP CORNERS

DO NOT SCALE DIMS

MATERIAL: \_\_\_\_\_

SCALE: \_\_\_\_\_

SHEET: 1 OF 1

DESCRIPTION: \_\_\_\_\_

QTY: \_\_\_\_\_

VARIATION: \_\_\_\_\_

CLASS OF ACCURACY: \_\_\_\_\_

CHECK ONE: \_\_\_\_\_

SURFACE QUALITY: \_\_\_\_\_

QUANTITY & VARIATION: \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

CHKD: \_\_\_\_\_

APP'D: \_\_\_\_\_

TITLE: ASYNC MODEM INTERF CABLE EXT

SIZE: \_\_\_\_\_

CODE: \_\_\_\_\_

DIA: \_\_\_\_\_

BC05D-0-0

REV: \_\_\_\_\_

| NAME          | CHARGE NO.    | REV.          |
|---------------|---------------|---------------|
| R. BLANCHETTE | BC55M-MK001 A | 6 NOV-72      |
| R. BLANCHETTE | BC55M-MK002 B | 24 JULY-80    |
| R. HARRINGTON | BC55M-MK003 C | 19 APRIL 1978 |
| R. HARRINGTON | BC55M-MK004 D | 14 MAY-72     |

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D

C

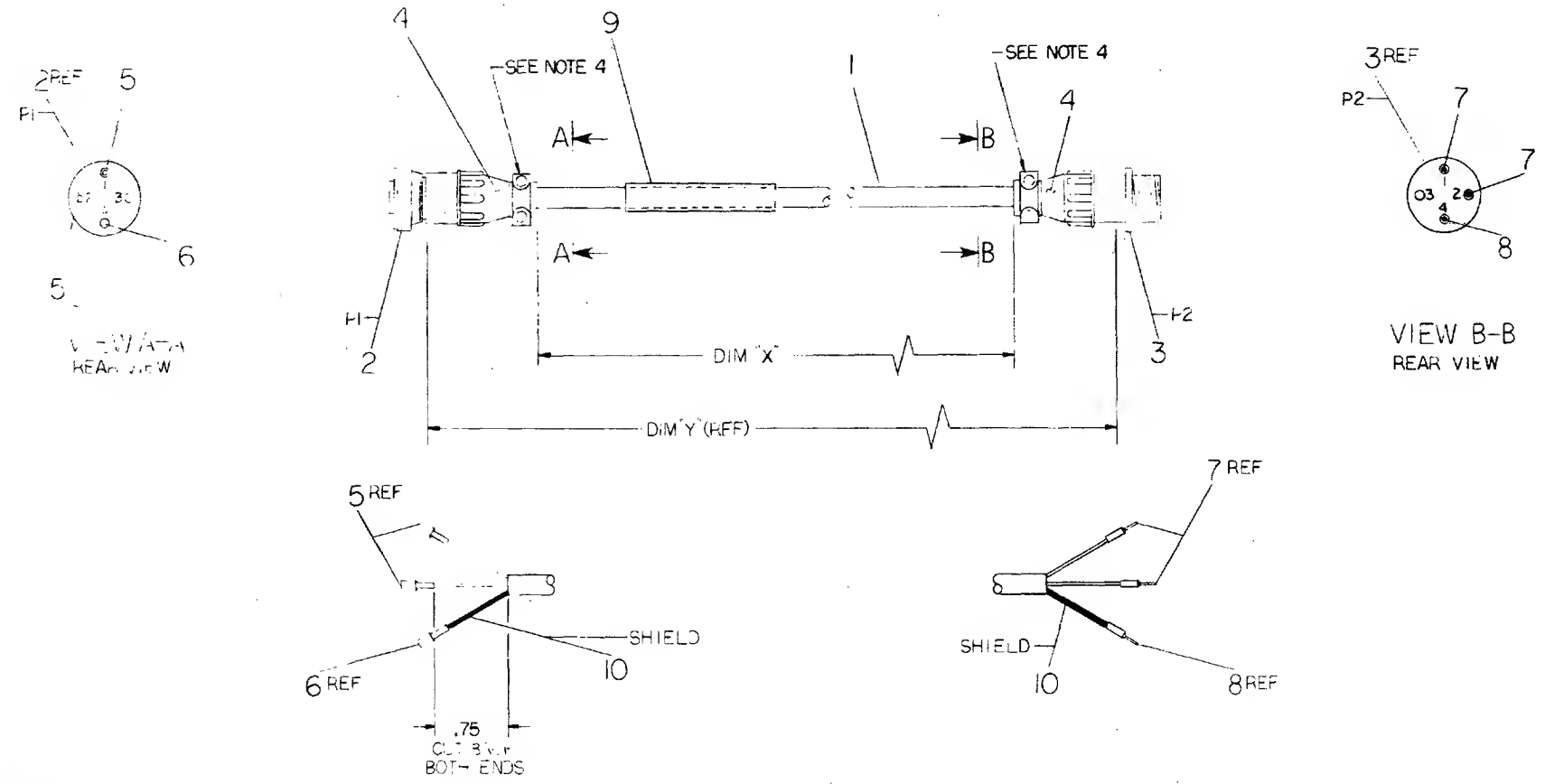
B

A

| WIRE TABLE |             |       |      |      |      |      |             |
|------------|-------------|-------|------|------|------|------|-------------|
| ITEM NO    | DESCRIPTION |       | FROM |      | TO   |      | SIGNAL NAME |
|            | AWG         | COLOR | CONN | WITH | CONN | WITH |             |
| 1          | 20          | BLU   | PI-1 | 5    | P2-1 | 7    | +DIFF       |
|            | 20          | CLEAR | PI-2 | 5    | P2-2 | 7    | -DIFF       |
|            | SHIELD      |       | PI 4 | 6    | P2 4 | 8    | SHIELD      |

| LEGEND   |                   |                      |                     |
|----------|-------------------|----------------------|---------------------|
| NUMBER   | DIM "X" VARIATION | DIM "Y" (PRECUT) REF | METRIC LENGTH (REF) |
| BC55N-98 | 98 FT ± 2 FT      | 98 FT 6 IN           | 30 METERS           |
| BC55N-50 | 50 FT ± 2%        | 50 FT 6 IN ± 2%      | 15 METERS           |
| BC55N-A0 | 100 FT ± 2%       | 100 FT 6 IN ± 2%     | 30 METERS           |
| BC55N-A5 | 150 FT ± 2%       | 150 FT 6 IN ± 2%     | 46 METERS           |
| BC55N-B0 | 200 FT ± 2%       | 200 FT 6 IN ± 2%     | 61 METERS           |
| BC55N-C0 | 300 FT ± 2%       | 300 FT 6 IN ± 2%     | 91 METERS           |
| BC55N-E0 | 500 FT ± 2%       | 500 FT 6 IN ± 2%     | 152 METERS          |
| BC55N-L0 | 1000 FT ± 2%      | 1000 FT 6 IN ± 2%    | 305 METERS          |
| BC55N-Y0 | 2000 FT ± 2%      | 2000 FT 6 IN ± 2%    | 610 METERS          |
| BC55N-YA | 3500 FT ± 2%      | 3500 FT 6 IN ± 2%    | 1067 METERS         |

- NOTES:
- FOR CRIMPING TOOL USE AMP #90277-01 ON ITEMS 5 & 7 AND AMP #90310-01 ON ITEMS 6 & 8.
  - FOR EXTRACTION TOOL USE AMP #305183.
  - FOR INSERTION TOOL USE AMP #91002 - 1.
  - USE 'CLAMPING INSERT #3' SUPPLIED WITH 'CLAMP ASSY' (ITEM 4).



CAUTION: OFF SHEET PARTS LIST EXISTS. REFER TO K-PL-BC55N-0-0.

|                                     |            |    |
|-------------------------------------|------------|----|
| AIR TUBING THIN WALL .106 ID (NAT)  | 9107302-11 | 10 |
| 1 LABEL CABLE ID                    | 3616073-00 | 9  |
| 1 CONTACT, MALE (14 AWG)            | 1212001-06 | 8  |
| 2 CONTACT, MALE (24-20 AWG)         | 1212001-03 | 7  |
| 1 CONTACT, FEMALE (14 AWG)          | 1212000-04 | 6  |
| 2 CONTACT, FEMALE (24-20 AWG)       | 1212000-02 | 5  |
| 2 CLAMP ASSY, CABLE                 | 1214430-00 | 4  |
| 1 CONN, RECEPTACLE (4 PIN CIRCULAR) | 1212527-00 | 3  |
| 1 CONN, PLUG 4 PIN CIRCULAR         | 1212526-00 | 2  |
| AIR CABLE TWIN AX 2 COND 20 AWG     | 1700164-00 | 1  |

|                                      |  |   |  |                       |          |
|--------------------------------------|--|---|--|-----------------------|----------|
| QUANTITY & VARIATION                 |  | DESCRIPTION   |  | DWG/PART NO.          | ITEM NO. |
| THIRD ANGLE PROJECTION               |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  | FIRST USED ON         |          |
| REMOVE BURRS AND BREAK SHARP CORNERS |  | CLASS OF ACCURACY (CHECK ONE)                       |  | TITLE                 |          |
| DO NOT SCALE DWG                     |  | NOMINAL DIMENSION RANGE INCHES                      |  | CABLE, INTEGRAL MODEM |          |
| MATERIAL SEE PARTS LIST              |  | SURFACE QUALITY IN MICROINCHES                      |  | SIZE CODE             |          |
| FINISH                               |  | PREFERRED   |  | D UA BC55N-0-0        |          |
| SCALE NONE                           |  | NEXT HIGHER ASSY.                                   |  | NUMBER                |          |
| SHEET                                |  | OF  |  | REV. C                |          |
|                                      |  |   |  | MK 1                  |          |

| REV. | CHANGE NO. | DESCRIPTION     |
|------|------------|-----------------|
| 1    | 1          | INITIAL REVISED |
| 2    | 2          | INITIAL REVISED |
| 3    | 3          | INITIAL REVISED |
| 4    | 4          | INITIAL REVISED |
| 5    | 5          | INITIAL REVISED |
| 6    | 6          | INITIAL REVISED |
| 7    | 7          | INITIAL REVISED |
| 8    | 8          | INITIAL REVISED |

# DIGITAL EQUIPMENT CORPORATION PARTS LIST

| QUANTITY / VARIATION |     |
|----------------------|-----|
| 1                    | 1   |
| 2                    | 2   |
| 3                    | 3   |
| 4                    | 4   |
| 5                    | 5   |
| 6                    | 6   |
| 7                    | 7   |
| 8                    | 8   |
| 9                    | 9   |
| 10                   | 10  |
| 11                   | 11  |
| 12                   | 12  |
| 13                   | 13  |
| 14                   | 14  |
| 15                   | 15  |
| 16                   | 16  |
| 17                   | 17  |
| 18                   | 18  |
| 19                   | 19  |
| 20                   | 20  |
| 21                   | 21  |
| 22                   | 22  |
| 23                   | 23  |
| 24                   | 24  |
| 25                   | 25  |
| 26                   | 26  |
| 27                   | 27  |
| 28                   | 28  |
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| 30                   | 30  |
| 31                   | 31  |
| 32                   | 32  |
| 33                   | 33  |
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| 45                   | 45  |
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| 84                   | 84  |
| 85                   | 85  |
| 86                   | 86  |
| 87                   | 87  |
| 88                   | 88  |
| 89                   | 89  |
| 90                   | 90  |
| 91                   | 91  |
| 92                   | 92  |
| 93                   | 93  |
| 94                   | 94  |
| 95                   | 95  |
| 96                   | 96  |
| 97                   | 97  |
| 98                   | 98  |
| 99                   | 99  |
| 100                  | 100 |

NOTES:

MADE BY *D. Z...*  
DATE *9 JAN 80*

CHECKED *R. Harrington*  
DATE 17 MAR '90

SECTION 1

ENG Hong Kong  
DATE 17 May 80

PROD *K. Soth*  
DATE *12 MAR 80*

ISSUED SECTION 1

| ITEM NO. | DRAWING NO.    | PART NO.        | DESCRIPTION           |
|----------|----------------|-----------------|-----------------------|
| 1        | B-TC-DMR11-0-1 | MP03911         | CUSTOMER PRINT SET    |
| 2        |                | EK-DMR11-UG-001 | DMR11 USERS GUIDE     |
| 3        |                | ZJ306-RB        | DMR11 SOFTWARE LIBKIT |

[illegible]

|                 |
|-----------------|
| REF DESIGNATION |
|-----------------|

| E.C.O. NO. |  |
|------------|--|
|            |  |

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|       |                      |
|-------|----------------------|
| TITLE | SHIPPING LIST, DMR11 |
|-------|----------------------|

|                |   |    |   |
|----------------|---|----|---|
| ASSY NO.       |   |    |   |
| D-UA-DMR11-Ø-Ø |   |    |   |
| SHEET          | 1 | OF | 1 |

|                  |                   |
|------------------|-------------------|
| SIZE<br><b>B</b> | CODE<br><b>PL</b> |
| INSERTION PART   |                   |

NUMBER  
DMR11-Ø

REV.  
★

**SHEET 1 OF 1**

# INSERTION PARTS LIST DATA BASE REV

| LINE ITEM | DOCUMENT NUMBER | PART NUMBER      | DESCRIPTION | QUANTITY PER VARIATION              |   |
|-----------|-----------------|------------------|-------------|-------------------------------------|---|
| 1         | 1               | D-IA-BC08S-0-0   | BC08S-10    | CABLE 10" DC76                      | 1 |
| 2         | 2               | D-IA-7421940-0-0 | 7421940-00  | PANEL BC55                          | 1 |
| 3         | 3               | D-UA-HBC55-0-0   | HBC55-00    | JUMPER BOARD + RS423/RS232C CONN    | 1 |
| 4         | 4               |                  | 9006453-00  | SCREW, SEMS, SLOTTED HEX HEAD 6-    | 6 |
| 5         | 5               | C-MD-7421941-0-0 | 7421941-00  | STRAIN RELIEF BC55                  | 1 |
| 6         | 6               |                  | 3616073-00  | LABEL, CABLE IDENTIFICATION         | 1 |
| 7         | 7               |                  | 9007834-00  | TAPE, DOUBLE COATED, 1/2" WIDE, A/R |   |
| 8         | 8               |                  | 9010174-00  | SCREW, SEMS, PHILLIPS PAN HD 6-3    | 2 |
| 9         | 9               |                  | 9008992-00  | WASHER, FLAT, WHITE NYLON, 375 X    | 1 |

| REVISION HISTORY |             |     | BASIC PART NO: BC55C     |  | DRN:                 | G HOVEY      | DATE: 21-SEP-79      | D I G I T A L     |      |            |     |
|------------------|-------------|-----|--------------------------|--|----------------------|--------------|----------------------|-------------------|------|------------|-----|
| ENG:             | ECO NUMBER  | REV | SECTION A OF A           |  | CHK'D:               | J FALKOWSKI  | DATE: 21-SEP-79      | TITLE             |      | PARTS LIST |     |
| PA               | BC55C-MK001 | A   | SECTION, VARIATION INDEX |  | [A] 10               |              |                      | PANEL ASSY, BC55C |      |            |     |
|                  |             |     | [B]                      |  | DES.ENG.:            | P ALOISI     | DATE: 21-SEP-79      |                   |      |            |     |
|                  |             |     | [C]                      |  | <i>Paul D Aloisi</i> |              |                      | DOCUMENT NUMBER   |      |            |     |
|                  |             |     | [D]                      |  | RESP.ENG.:           | P ALOISI     | DATE: 21-SEP-79      | SIZE              | CODE | NUMBER     | REV |
|                  |             |     | [E]                      |  | MFG.ENG.:            | G ARMBRUSTER | DATE: 21-SEP-79      | K                 | PL   | BC55C-0-0  | A   |
|                  |             |     | [F]                      |  | ASSEMBLY NUMBER:     |              | TOP DOCUMENT NUMBER: | FILE NAME:        |      | EDIT #     |     |
|                  |             |     |                          |  | D-UA-BC55C-0-0       |              | B-DD-BC55C-0-0       | BC55C.PLS         |      | 3          |     |

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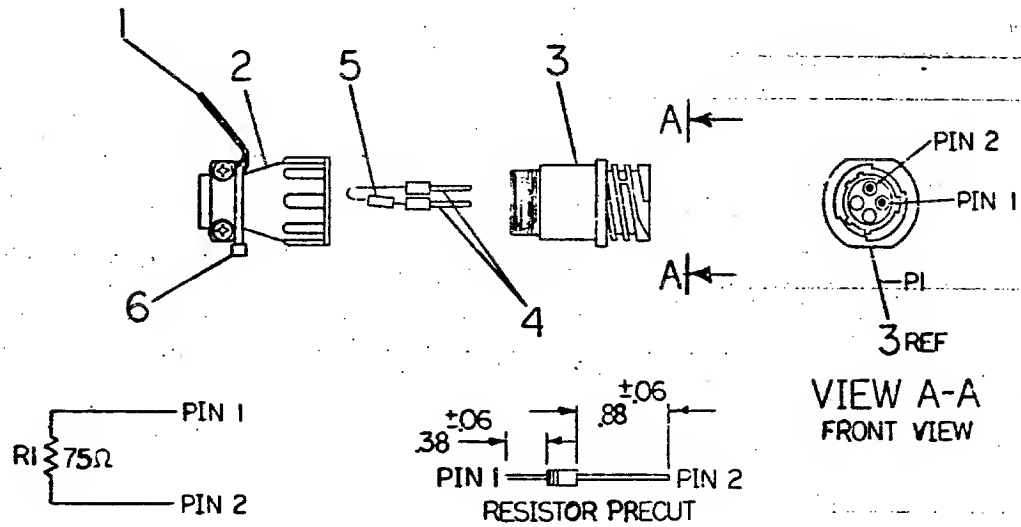
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# WIRE TABLE

| ITEM NO | AWG | REF-DES | FROM |      | TO   |      |
|---------|-----|---------|------|------|------|------|
|         |     |         | CONN | WITH | CONN | WITH |
| 5       | 22  | PI      | PI-1 | 4    | PI-2 | 3,4  |

## NOTES:

1. USE CLAMPING INSERT \*1 SUPPLIED WITH CLAMP ASSY (ITEM 2).
2. FOR CRIMPING TOOL USE AMP\*90277-01
3. FOR EXTRACTION TOOL USE AMP\*305183
4. FOR INSERTION TOOL USE AMP\*91002-1
5. FOLD LABEL (ITEM 1) IN HALF. CUT OFF UNUSED AREA OF LABEL AND WRAP AROUND CABLE TIE (ITEM 6) LENGTHWISE. SECURE CABLE TIE AT NECK OF SHELL.



VIEW A-A  
FRONT VIEW

|   |  |            |   |
|---|--|------------|---|
| 1 | TIE, CABLE, SST 1/8"                     | 9007031-00 | 6 |
| 1 | RES, 75 1/4W 5%                          | 1302379-00 | 5 |
| 2 | CONN, PIN 28-26 AWG                      | 1212001-02 | 4 |
| 1 | CONN, RCPT 4 PIN CIRC FCR 1212526-00     | 1212527-00 | 3 |
| 1 | CONN, RCPT CLAMP, CABLE CIRC SHELL SZ-11 | 1211430-00 | 2 |
| 1 | LABEL, CABLE IDENTIFICATION              | 3616073-00 | 1 |

| DESCRIPTION   | DWG./PART NO. | ITEM NO. |
|---|---------------|----------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |               |          |
| ANGLES<br>2.00 30°                                  |               |          |
| SURFACE QUALITY IN                                  |               |          |
| MICROINCHES   |               |          |

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE OR G

MATERIAL SEE PARTS LIST

FINISH

QUANTITY & VARIATION

ORIGIN: *12/18/79*

CHK'D: *12/18/79*

ENG: *12/18/79*

PROD. ENG: *12/18/79*

NEAT HIGHER ASSY.

B-DD-H3257-0

SCALE 1/1

SHEET OF

DMPII-AC. digital

TITLE TERM, INTEGRAL MODEM MALE

SIZE CODE B UA H3257-0-0

NUMBER

REV. \*

| REV. | CHANGE NO. | DATE     |
|------|------------|----------|
| 1    | 1          | 12/18/79 |

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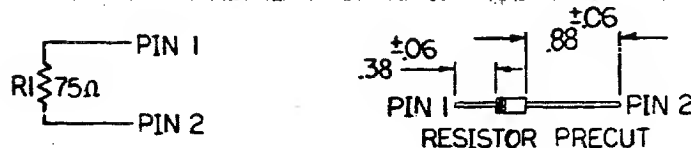
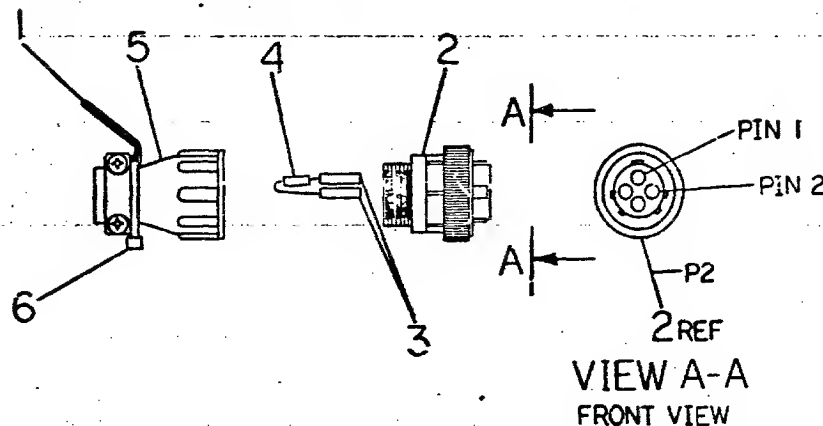
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# WIRE TABLE

| ITEM NO | DESCRIPTION |         | FROM |      | TO   |      |
|---------|-------------|---------|------|------|------|------|
|         | AWG         | REF-DES | CONN | WITH | CONN | WITH |
| 4       | 22          | RI      | P2-1 | 3    | P2-2 | 2,3  |

## NOTES


1. USE CLAMPING INSERT\*1 SUPPLIED WITH CLAMP ASSY (ITEM\*5).
2. FOR CRIMPING TOOL USE AMP\*90277-01.
3. FOR EXTRACTION TOOL USE AMP\*305183.
4. FOR INSERTION TOOL USE AMP\*91002-1.
5. FOLD LABEL (ITEM 1) IN HALF. CUT OFF UNUSED AREA OF LABEL AND WRAP AROUND CABLE TIE (ITEM 6) LENGTHWISE. SECURE CABLE TIE AT NECK OF SHELL.



CAUTION: OFF SHEET  
PARTS LIST SEE K-PI-H3258-0-0

|   |  |            |   |
|---|--|------------|---|
| 1 | TIE, CABLE, SST 1 M                        | 9007031-00 | 5 |
| 1 | CONN, RCPT CLAMP, CABLE<br>CIRC SHEL SZ-11 | 1211430-00 | 5 |
| 1 | RES, 75 1/4W 5%                            | 1302379-00 | 4 |
| 2 | CONN, SKT 28-26 AWG<br>CRIMP               | 1212000-03 | 3 |
| 1 | CONN, PLUG 4 PIN<br>CIRC FOR 1212527-00    | 1212526-00 | 2 |
| 1 | TAG, LABEL, CABLE<br>IDENTIFICATION        | 3616073-00 | 1 |

| DESCRIPTION   |  | DWG./PART NO.                  |       | ITEM NO. |       |
|---|--|--------------------------------|-------|----------|-------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |                                |       |          |       |
| ANGLES $\pm .007$                                   |  | NOMINAL DIMENSION RANGE INCHES |       |          |       |
| CLASSES OF ACCURACY (CHECK ONE)                     |  | 2-1/4                          | 2-1/2 | 2-3/4    | 3-1/4 |
| SURFACE QUALITY IN                                  |  | 2-1/4                          | 2-1/2 | 2-3/4    | 3-1/4 |
| MICROINCHES   |  | 2-1/4                          | 2-1/2 | 2-3/4    | 3-1/4 |
| MEDIUM  |  | 2-1/4                          | 2-1/2 | 2-3/4    | 3-1/4 |
| PREPARED  |  | 2-1/4                          | 2-1/2 | 2-3/4    | 3-1/4 |

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| THIRD ANGLE PROJECTION  |  | DRN. <i>J. P. Hesser</i> 12/13/77<br>CHK'D <i>W. L. D. Hesser</i><br>ENG. <i>W. L. D. Hesser</i><br>PROJ. ENG. <i>W. L. D. Hesser</i><br>PROD. <i>D. Hesser</i><br>NEXT HIGHER ASSY. |  | FIRST USED ON<br>DMP11-AC <b>digital</b><br>TITLE<br>TERM. INTEGRAL<br>MODEM, FEMALE |  |
|  |  | REMOVE BURRS AND<br>BREAK SHARP CORNERS  |  | DO NOT SCALE DWG   |  |
| MATERIAL<br>SEE PARTS LIST  |  | SCALE 1/1  |  | SIZE CODE NUMBER REV.<br>B UA H3258-0-0 A  |  |
| PARTS LIST<br>PARTS LIST  |  | PARTS LIST<br>PARTS LIST   |  | PARTS LIST<br>PARTS LIST   |  |